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Publication/Creation

London : Printed by J. Leake for Peter Buck ..., 1697.

Persistent URL

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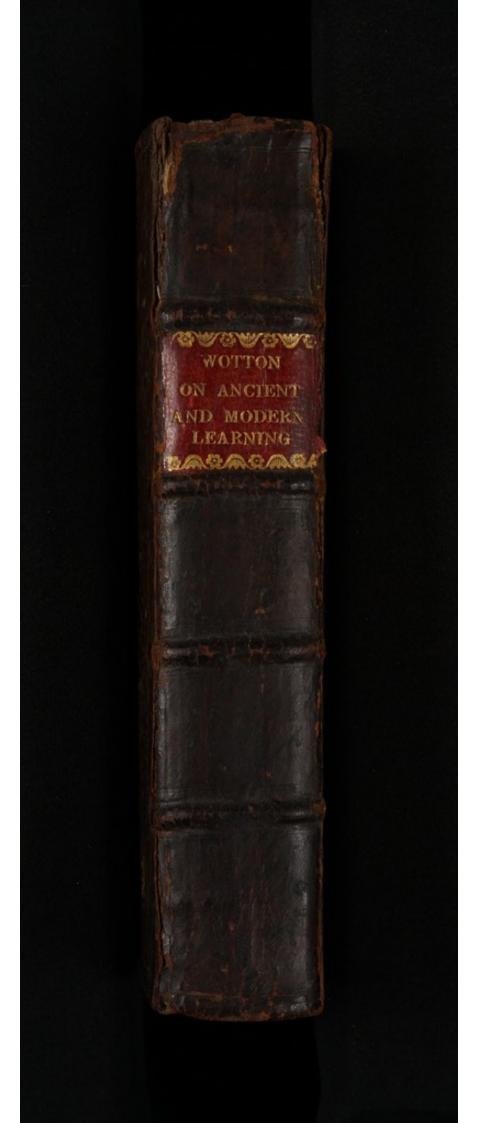
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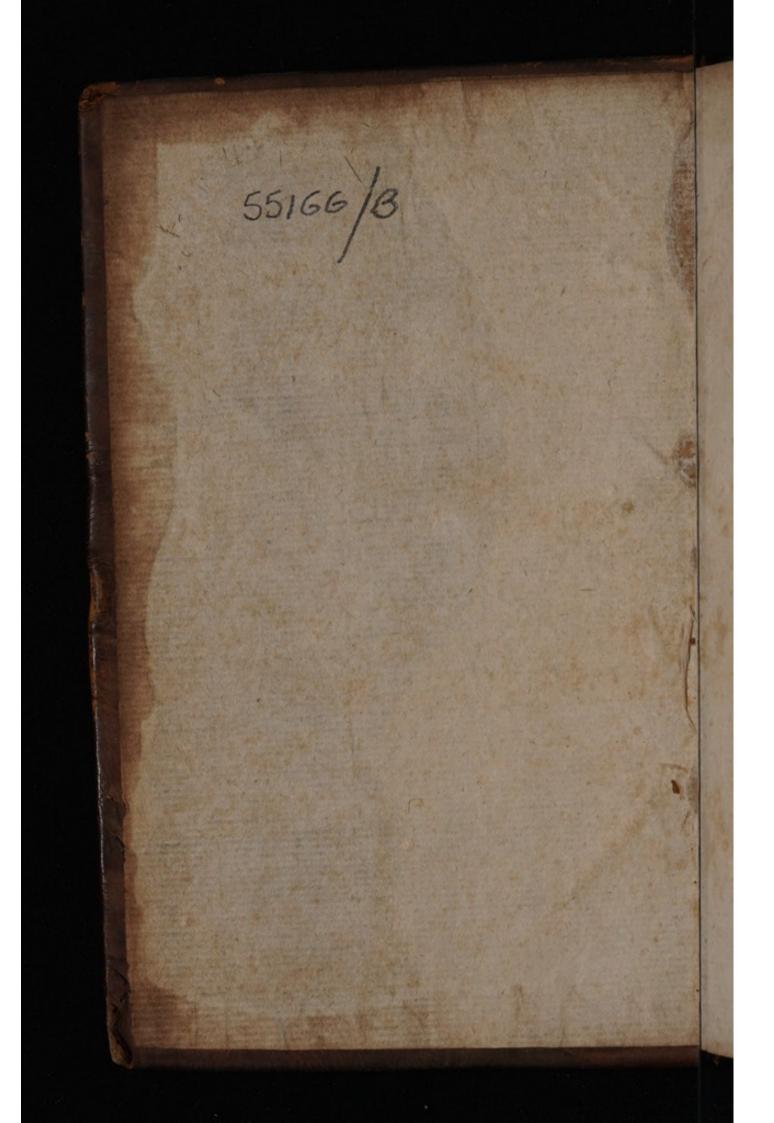


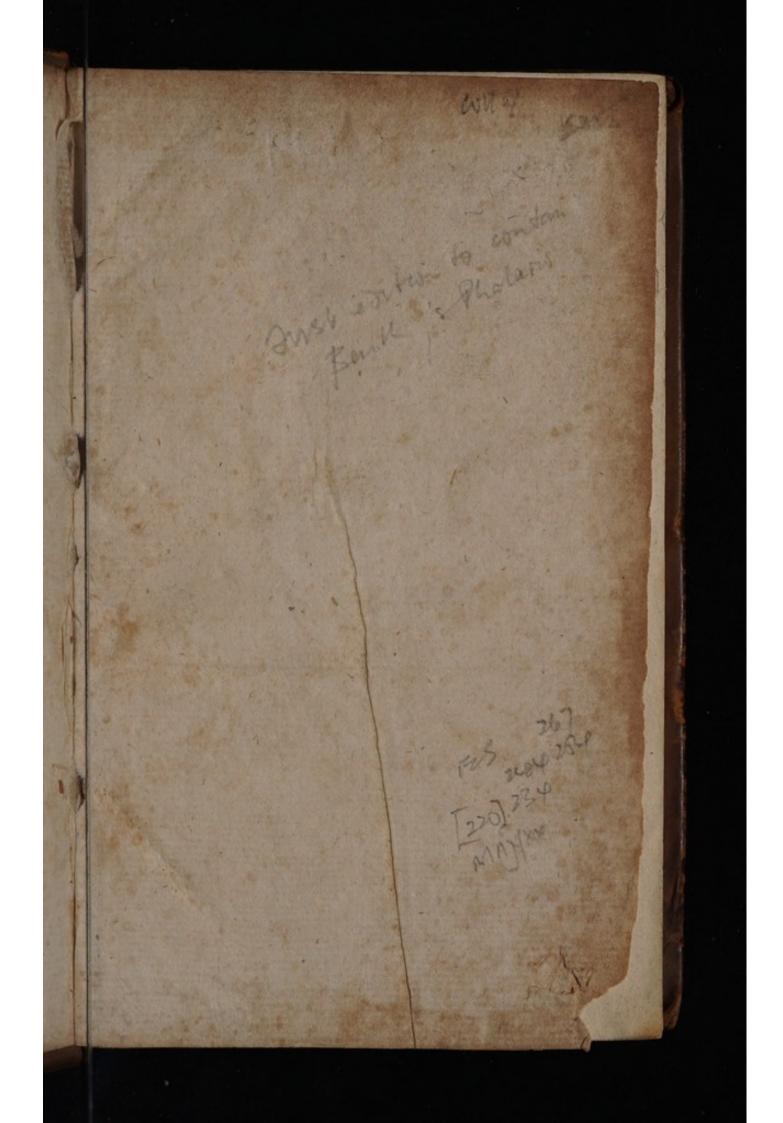


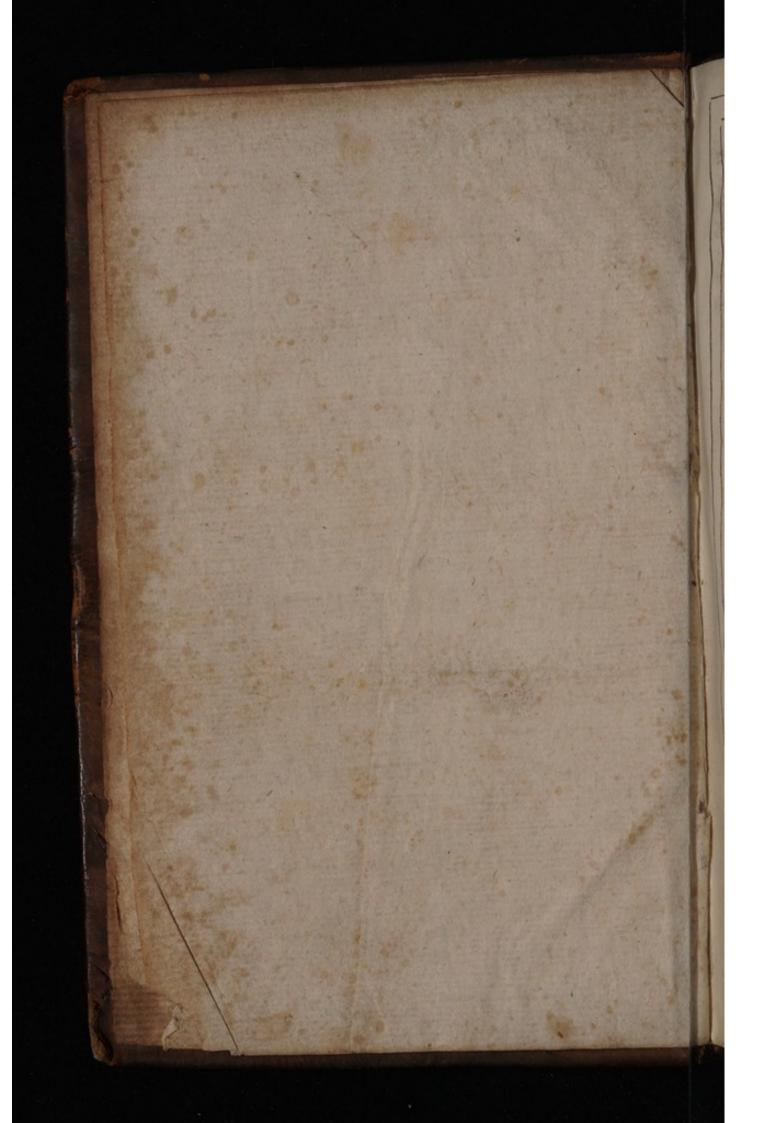


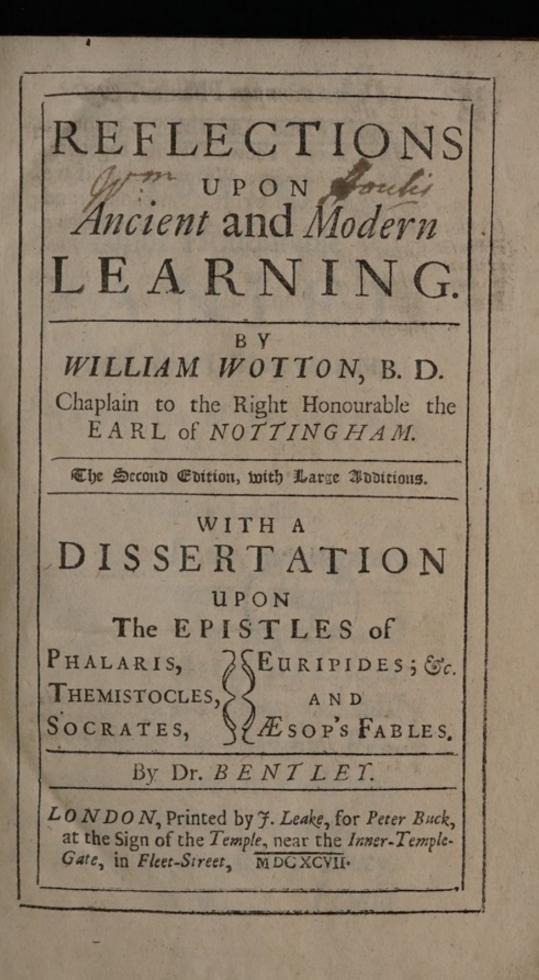


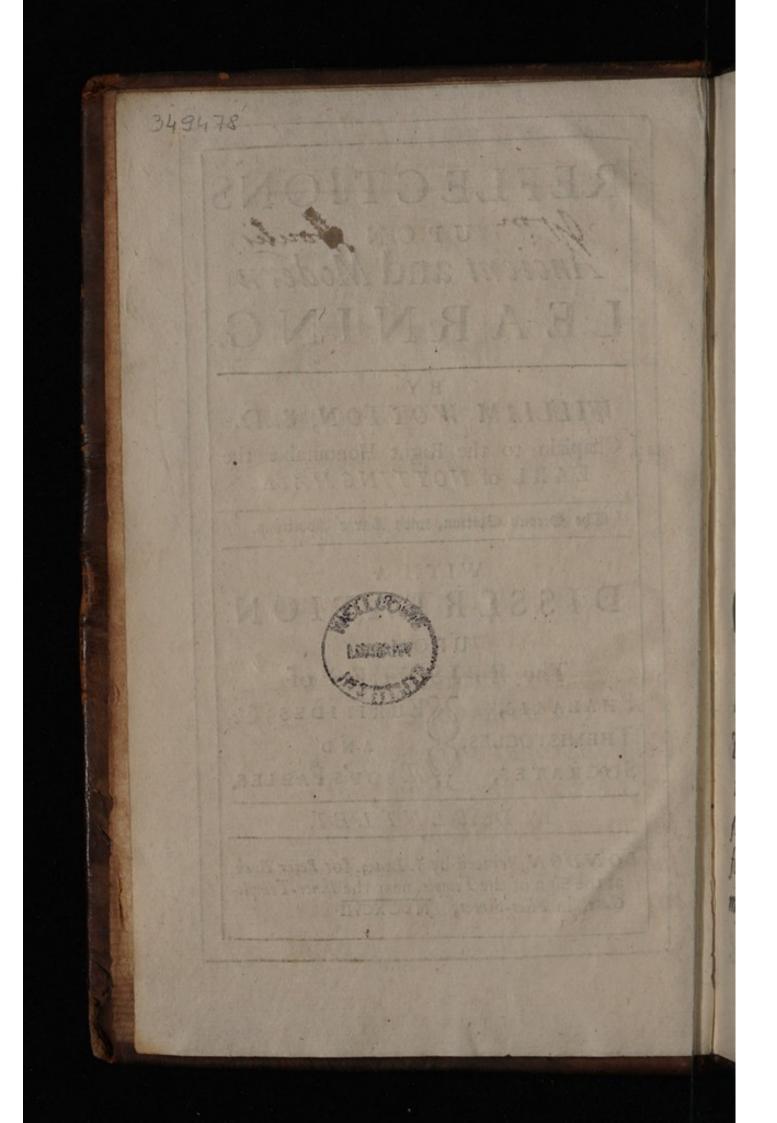












TO THE Right Honourable DANIEL Earl of NOTTINGHAM, Baron FINCH OF DAVENTRY.

he FPISTEE

May it pleafe Your Lordship,

Ince I am, upon many Accounts, obliged to lay the Studies and Labours of my Life at Tour Lordship's Feet, it will not, I hope, be thought Presumption in me to make this following Address, which, on my Part, is an AE of Duty. A 2 I could

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I could not omit so fair an Opportunity of declaring how senfible I am of the Honour of being under Your Lordship's Patronage. The Pleasure of telling the World that one is raifed by Men who are truly Great and Good, works too powerfully to be smothered in the Breast of him that feels it; especially fince a Man is rarely cenfured. for shewing it, but is rather commended for gratifying such an Inclination, when he thankfully publishes to whom he is indebted for all the Comforts and Felicities of his Life.

But Tour Lordship has another Right to these Papers, which is equal to that of their being

DEDICATORY. being mine : The Matter it self directs me to Your Lordship as the Proper Patron of the Cause, as well as of its Advocate. Those that enquire whether there is such a Spirit now in the World as animated the greatest Examples of Antiquity, must seek for living Instances, as well as abstracted Arguments; and those they must take care to produce to the best Advantage, if they expect to convince the World that they have found what they fought for.

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This therefore being the Subject of this following Enquiry, it seemed necessary to urge the strongest Arguments A 3 first,

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first, and to preposels the World in favour of my Caufe, by this Dedication. For those that confider that the Vertues which make up a Great Character, such as Magnanimity, Capacity for the Highest Emplovments, Depth of Judgment, Sagacity, Elocution, and Fidelity, are united in as eminent a Degree in Tour Lord-Thip, as they are found asunder in the true Characters of the Ancient Worthies; that all this is rendred yet more Illustrious by Tour Exemplary Piety and Concern for the Church of England, and Your Zeal for the Rights and Honour of the English Monarchy; and last

DEDICATORY.

last of all, that these Vertues do so constantly descend from Father to Son in Tour Lordship's Family, that its Collateral Branches are esteemed Public Blessings to their Age and Country; will readily confess that the World does still Improve, and will go no further than Tour Lordship, to substant the stall be so bardy as to dispute it.

Justice therefore, as well as Gratitude, oblige me to present these Papers to Tour Lordship: Though, since I have taken the Freedom, in several Particulars, to dissent from a Gentleman, whose Writings have been very kindly received A 4 in

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The E PISTLE, Gc. in the World, I am bound to declare, that the principal Reason which induced me to make this Address, was, not to interest Tour Lordship in my small Disputes, but to let the World see, that I have a Right to subscribe my self,

May it please Your Lordship,

Your Lordship's

Most Obliged, And Most Dutiful

irriculars, to differit from a

Servant and Chaplain,

WILLIAM WOTTON.

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oferMen, who, Day

HE Argument of these following Papers seems, in a great measure, to be so very remote from that Holy Profession, and from those Studies, to which I am, in a more particular manner, obliged to dedicate my self, that it may, perhaps, be expected I should give some Account of the Reasons which engaged me to set about it.

In the first place therefore, I imagined, that if the feveral Boundaries of Ancient and Modern Learning were once impartially stated, Men would better know what were still unfinissed, and what were, in a manner, perfect; and consequently, what deferved the greatest Application, upon the score of its being imperfect: which might be a good Inducement to set those

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those Men, who, having a great Genius, find also in themselves an In-. clination to promote Learning, upon Subjects wherein they might, probably, meet with Success answerable to their Endeavours: By which means, Knowledge, in all its Parts, might at last be compleated. I believed likewile, that this might infenfibly lead Men to follow fuch, and only fuch, for their Guides, as they could confide in for the Ableft and Beft in those several kinds of Learning to which they intended to apply their Thoughts. He that believes the Ancient Greeks and Romans to have been the greatest Masters of the Art of Writing that have ever yet appeared, will read them as his Instructors, will copy after them, will strive to imitate their Beauties, and form his Stile after their Models, if he purposes to be excellent in that Art himself : All which things will be neglected, and he will content himfelf

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himfelf to read them in their Tranflations, to furnish his Mind with Topics of Discourse, and to have a general Notion of what thele Ancient Authors fay, if he thinks he may be equally Excellent a nearer Way. To read Greek and Latin with Eafe, is a thing not foon learn'd; those Languages are too much out of the common Road ; and the Turn which the Greeks and Latins gave to all their Thoughts, cannot be refembled by what we ordinarily nicet with in Modern Languages ; which makes them tedious, till mastered by Use. So that conftant Reading of the most perfect Modern Books, which does not go jointly on with the Ancients, in their Turns, will, by bringing the Ancients into Dif-ule, caufe the Learning of the Men of the next Generation to fink; by reafon that they, not drawing from those Springs from whence thefe excellent Moderns drew, whom they only propofe

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pose to follow, nor taking those Measures which these Men took, must, for want of that Foundation which these their Modern Guides first carefully laid, fail in no long Compass of Time.

Yet, on the other hand, if Men who are unacquainted with these things, should find every thing to be commended because it is oldest, not because it is best; and afterwards fhould perceive that in many material and very curious Parts of Learning, the Ancients were, comparatively speaking, grossly ignorant, it would make them fuspect that in all other things also they were equally deficient; grounding their general Conclusion upon this common, tho' erroneous Principle, that because a Man is in an Error in those things whereof we can judge, therefore he must be equally mistaken in those things where we cannot. Now, this Extream can be no way more eafily avoided,

avoided, than by ftating the due Limits of Ancient and Modern Learning; and shewing, in every Particular, to which we ought to give the Pre-eminence.

But I had another, and a more powerful Reafon, to move me to confider this Subject; and that was, that I did believe it might be very subservient to Religion it self. Among all the Hypotheses of those who would deftroy our most Holy Faith, none is so plausible as that of the Eternity of the World. The fabulous Histories of the Ægyptians, Chaldæans and Chineses seem to countenance that Affertion. The feeming Eafiness of solving all Difficulties that occurr, by pretending that fweeping Floods, or general and fucceffive Invafions of Barbarous Enemies, may have, by Turns, deftroy'd all the Records of the World, till within thefe laft Five or Six Thoufand Years, makes it very desuable Polition.

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to those whose Interest it is, that the Christian Religion should be but an empty Form of Words, and yet cannot fwallow the Epicurean Whimfies of Chance and Accident. Now the Notion of the Eternity of Mankind, through infinite fucceffive Generations of Men, cannot be at once more effectually and more popularly confuted, than by fhewing how the World has gone on, from Age to Age, Improving ; and confequently, that it is at present much more Knowing than it ever was fince the earlieft Times to which Hiftory can carry us.

But upon Examination of this Queftion, feveral Difficulties appeared, which were carefully to be removed. The greateft was, That fome Sciences and Arts, of a very compounded Nature, feem really to have been more perfect anciently, than they are at prefent; which does, as it were, directly overthrow my Pofition.

Position. Therefore I was obliged, first, to enquire whether the Thing were true in Fact, or not : Next, If true, whether it proceeded from a particular Force of Genius, or from the Concurrence of some accidental Circumftances; and alfo, whether, in cafe fuch Circumstances did concurr, in other Things, where those Accidents could have no place, the Moderns did not out-doe the Ancients fo much, as, allowing the World to be no older than the Mofaical Account, it were reasonably to be expected they fhould. For then, if all these Questions could be fatisfactorily refolved, the Objection would be no Objection at all; and Mankind might still be supposed to improve, even though in some Particulars they should go back, and fall short of the Perfection which once they had.

There is no question but these Excellencies of the Ancients might be vii

be accounted for, without hurting the Mofaical Hiftory, by refolving them into a particular Force of Genius, evidently difcernible in former Ages, but extin& long fince. But this feems to be of very ill Confequence, fince it does, as it were, fuppofe that Nature were now worn out, and fpent; and fo may tempt a Libertine to think that Men, as Muſhrooms are faid to do, fprung out of the Earth when it was freſh and vigorous, impregnated with proper Seminal Atoms, now, of many Ages, no longer feen.

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When nothing therefore appeared to be fo likely to take off the Force of the main Objection, as the finding of particular Circumftances which might fuit with those Ages that did exceed ours, and with those things wherein they did exceed us, and with no other Age nor Thing befides ; I did at last please my felf, that I had found these Circumstances ; and in fetting

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fetting them down, I took care, neither to be deceived my felf, nor (as I hope) to deceive any Body elfe.

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But what shall be faid to those numerous Deluges, which, no Body knows how many Ages before that of Noah, are faid to have carried away all Mankind, except here and there a Couple of ignorant Salvages, who got to some high Mountain, and from thence afterwards replenish'd the Earth? This Hypothesis (as these Men call it) is fo very precarious, that there needs nothing to be replied to it, but only that it is as eastly dif-proved by Denying, as defended by Afferting, fince no Records nor Traditions of the Memory of the Facts are pretended ; and fomething easier, because it may be demonstrably proved, that a general Flood cannot be effected without a Miracle, and if it could, that it must deftroy the whole Race of Mankind, unless some few should be preferved,

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as the Holy Scriptures affure us Noab was, who then would preferve the Memory of their own Deliverance, which deftroys our Libertines Hypothefis. Now, partial Deluges are not fufficient : If one Country be deftroyed, another is preferved ; and if the People of that Country have Learning among them, they will alfo have a Tradition, that it once was in the other Countries too, which are now dif-peopled.

Upwards, as far as the Age of Hippocrates, Knowledge may be traced to its feveral Sources : But of any Hiftories older than the Mofaical, there are no fort of Foot-fteps remaining, which do not, by their Contradictions, betray their Fallhood ; fetting those as fide which Moses himfelf has preferved. If any should pretend to solve the Difficulty, by supposing Invasions of Barbarous Enemies, which may have destroy'd the Memory of all past Knowledge, they

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they will foon fee new Difficulties arife, inftead of having the old ones removed. There is Reason to fuppose that Invasions of Barbarous Enemies were anciently of the fame Nature, as they have been fince ; that is, they might poffibly make entire Conquests of the Countries which were fo invaded; but we cannot suppose that any of these pretended Ante-Mofaical Conquests, of which we are now speaking, made a greater Alteration than that which the Goths and Vandals made in the Roman Empire ; that which the Saracens first, and the Turks afterwards made in the Greek ; or that of the Tartars in China. The Goths and Vandals had fcarce any Learning of their own ; and if we confider Politenels of Manners, and nothing elfe, they feem truly to have deferved the Name of Barbarous : They therefore took fome of the Roman Learning, as much as they thought was for their Turn, the Memory

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Memory whereof can never be faid to have been quite extinct during the whole Course of those ignorant Ages which fucceeded, and were the Effects of their Conquests. The Saxons in England, being taught by the Britifb Refugees, who planted themfelves in Ireland, and from thence, by the Way of Scotland, came by degrees back again into their own Country, had as much, if not more Learning than any of their Europaan Neighbours. The Saracens applied themfelves to Learning in earnest, as soon as the Rage of their first Wars was over; and refolving to make theirs a compleat Conquest, robb'd the Greeks of their Knowledge, as foon as they had poffessed themselves of the most valuable Parts of their Empire. The Turks have learnt enough, not to be thought illiterate, though lefs proportionably than any of the forementioned Conquerors : They can Write and Read; they preferve fome rude

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rude Annals of their own Exploits, and general Memorials, it matters not how imperfect of precedent Times: And they have loft none of the Mechanical Arts that they had occasion for, which they found in the Countries where they came, fince they either work themfelves, or employ others that shall ; which, to the prefent Purpose, is all one. The Tartars have, fince their Conquest, incorporated themfelves with the Chineses, and are now become one People, only preferving the Authority still in their own Hands.

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In all these Instances one may observe, that how barbarous soever these several Conquerors were when first they came into Civilized Countries, they, in time, learnt fo much at least of the Arts and Sciences of the People whom they fubdued, as ferved them for the necessary Uses of Life; and thought it not beneath them to be instructed by those to whom

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whom they gave Laws. Wherefore there is Reason to believe, that fince Mankind has always been of the fame Make, former Conquests would have produced the fame Effects, as we fee later ones have done. In fhort, We cannot fay that ever any one Invention of confiderable Use has been laid afide, unless some other of greater and more general Ule has come in the room of it, or the Conquerors took it away, for some Political Reason, either letting it totally die, or fupplying it with fomething elfe, which to them feemed a valuable Equivalent. Have any of these Conquerors, fince Tubal-Cain's Time, once fuffered the Ufe of Metals, Iron for instance, or Gold, to be loft in the World? Hath the Ufe of Letters been ever intermitted fince the Time of that Cadmus, whoever he was, that first found them out ? Or, was Mankind ever put to the trouble of Inventing them a fecond time ?

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time ? Have the Arts of Planting, of Weaving, or of Building, been at any time, fince their first Invention, laid aside ? Does any Man believe that the Use of the Load-stone will ever be forgotten? Are the Turks fo barbarous, or so spightful to themfelves, that they will not use Gunpowder, becaufe it was taught them by Christians? Does not Garcilasso de la Vega inform us, that the Pernvians would have worfhipped the Spaniards as Gods, if their Cruelties had not foon led these harmles People to take them to be fomething elfe, because they taught them the Use of Iron and Looking-Glass? (Whence we may be fure that this innocent and honeft Nation never had Learning amongst them before.) Do not we find, that they and the Mexicans, in the compass of Four or Five Hundred Years, which is the utmost Period of the Duration of either of their Empires, went on still

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Improving? (As the whole New World would, probably, have done in not many Ages, if these two mighty Nations had extended their Conquests, or if new Empires had arisen, even though the Spaniards had never come among them; fince those two Empires of Mexico and Peru, which were the only confiderable Civilized Governments in America, got constant Ground of their Enemies ; having the fame Advantages over them, as formed Troops have over a loofe Militia.) Or, can we think that they would again have relapsed to their old Barbarity of themselves, when once they had been weary of those Arts, and of that Learning (fuch as it was) which then they had ? Men are not fuch stupid Creatures, but if an Invention is at any time found out, which may do them great and eminent Service, they will learn it, and make use of it, without enquiring who it is they learn

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learn it of ; or taking a Prejudice at the Thing, because, perhaps, they may be indebted to an Enemy for it. Barbarous and Polite are Words which rather referr to Matters of Breeding and Elegance, than of Sound Judgment, or Good Sense; which first thew themfelves in making Provision for Things of Convenience, and evident Interest, wherein Men scarce ever commit palpable Mistakes. So that it is unaccountable that the Hiftory of Learning and Arts should be of so confessedly late a Date, if the Things themselves had been many Ages older ; much more if the World had been Eternal.

Befides thefe, I had a Third Reafon to engage me to this Undertaking; which was, the Pleafure and Usefulnefs of those Studies to which it necessarily led me: For Discoveries are most talked of in the Mechanical Philosophy, which has been but lately revived in the World. Its

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Its Professors have drawn into it the whole Knowledge of Nature, which, in an Age wherein Natural Religion is denied by many, and Revealed Religion by very many more, ought to be fo far known at least, as that the Invisible Things of the Godhead may be clearly proved by the Things that are feen in the World. Wherefore I thought it might be Labour exceedingly well (pent, if, whilft I enquired into what was anciently known, and what is a new Difcovery, I should at the fame time furnish my MindwithnewOccafionsofadmiring the boundless Wisdom and Bounty of that Almighty and Beneficent Effence, in and by whom alone this whole Universe, with all its Parts, live, and move, and have their Being.

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I had also a fresh Inducement to this Search, when I found to how excellent purpose my most Learned and Worthy Friend, Dr. Bentley, had, in his late incomparable Discourses

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courfes against Atheism, shewn what admirable Use may be made of an accurate Search into Nature, thereby to lead us directly up to its Author, so as to leave the unbelieving World without Excuse.

But, after all that I have alledged for my felf, I must acknowledge, that I foon found that I did not enough confider Quid valeant humeri, aut quid ferre recusent. The Subject was too vaft for any one Man, much more for me, to think to do it Justice ; and therefore, as foon as I had drawn up a rude Scheme of the Work, 1 intended to have given it over, if the importunate Sollicitations of my very Ingenious Friend, Anthony Hammond, Efq; had not at last prevailed upon me to try what I could fay upon it : And it was so difficult a Thing to me to refuse what was fo earneftly preffed by a Perfon who was fo very dear to me, and which in the prefent Cafe was a great deal WHEDLIN more,

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PREFACE.

more, One, for whofe Sence and Judgment, all that know him have to very particular a Regard, that I refolved at laft, rather to hazard my own Reputation, than to deny his Requeft; efpecially, fince I hoped that it might, perhaps, give fome Body elfe an Opportunity to compleat that, of which this Treatife is a very imperfect Effay.

I hope I need make no Apology, that a great Part of this Discourse may feem too Polemical for a Writing of this kind : For that could not be well avoided, because the Argument it felf has been fo much debated. The ableft Men of the two opposite Parties, are, Sir William Temple, and Monsieur Perrault : They are two great Men, and their Writings are too well known, and too much valued, to be over-looked. They cloath their Thoughts in fo engaging a Drefs, that a Man is tempted to receive all they fay, without

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PREFACE.

without Examination; and therefore I was afraid that I might have been accused of betraying my Cause, if, whilst I endeavoured throughout the whole Controversie to act the Part of a Mediator, and to give to every Side its just due, I had omitted what these two elegant Advocates had feverally alledged for their respective Hypotheses.

What Cenfure the World will país upon my Performance, I know not; only I am willing to think, that those who shall not agree to what I fay, will grant that I have reprefented the Opinions of other Men with Impartiality and Candour, and that I have not discovered any Bigottry or Inclination to any one particular Side ; which will be a good Step to make them believe, that I shall not obstinately defend any one Position, which may hereafter be proved to be erroncous.

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without Examination ; and there-

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CInce the Second Edition of my Book was Printed off, we have had an Account in the Journal des Sçavans, that Monsieur Perrault has publish'd a THIRD PART of his Parallel between the Ancients and the Moderns; in which he undertakes to prove, that the Skill of the Moderns in Geography, Philofophy, Medicine, Mathematics, Navigation, &c. is preferrible to that of the Ancients. The Book is not yet, that I know of, in England, and possibly may not be procurable in some time. I thought it necesfary, however, to take notice, that I have had a bare Intimation of fuch a Book, and no more; that fo if in any Material Things we should happen to Agree, (as writing upon the fame Argument, tis very probable

bable we may,) I might not hereafter be thought a Plagiary. There was no danger hitherto; fince as far as he had gone before, I either openly diffented from him, or ditectly abridged his Words.

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Pag. 220. Thave, upon his own Authority, given Columbus the Credit of Discovering that little Bone in the Inner Cavity of the Ear, which, from its figure, is commonly call'd the Stirrup : And indeed, he being the first that ever mention'd it in Print, and pretending that it was his own Invention, feems to have the fairest Plea to the Honour of it. But Philippus Ingraffias, who wrote some time before Columbus, certainly knew it : For, in his Commentary upon Galen de Offibus, he expressy mentions it; and for that Reason, Falloppins, who could not want Opportunity of being truly inform'd, and was a right honest Man, and a judicious Anatomift,

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POSTSCRIPT. XXIV

> Anatomist, and one to whom many Discoveries are owing, ascribes it to him in fuch Terms as put the Controversie beyond dispute. Tertium . (fays Falloppins, speaking of the little Bones in the Inner Cavity of the Ear) si nolumus debità lande quenquam defraudare, invenit & promulgavit primus Johannes Philippus ab Ingrassia Siculus Philosophus ac Medicus Doctiffimus dum Neapolitano in Gymnafio publice Anatomen doceret : And a little after ; Deus tamen gloriosus scit Ingrassie fuisse inventum; atque cum Stapedis aut Staffæ nostrorum Patrum effigiem gestet, merito Stapedis nomine ab eodem fuisse donatum. Had Ingraffias's Book been printed in his Lifetime, there had never been room for a Dispute; though his Right was fo well known, that Bartholomans Eustachins, who wrote soon after Columbus, and put in his Claim to the Glory of the Difcovery,

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covery, mentions Ingrassias's Pretences, which Columbus does not.

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Some, perhaps, will think this Enquiry into the Author of this Difcovery, to be a needlefs Affectation of Exactnefs. But 'tis fo much the Duty of all Writers, not to mif-lead their Readers in the fmalleft Particular, that they are obliged to rectifie their own Miftakes where-ever they find them, and not to be afraid of being accufed of Negligence; fince Truth, and not Glory, ought to be the ultimate End of all our Labours and Enquiries.

I am obliged alfo to take notice, that I have lately got a fight of Serwetus's Christianismi Restitutio, out of which that famous Passage concerning the Circulation of the Blood, which I set down at length, p. 230. was copied long ago by that worthy Member of the Royal Society, Mr. Abraham Hill, from whom Mr. Bernard b had XXV

had it. My Lord Bifhop of Norwich, whole incomparable Library contains every thing that is rare and excellent, did me the honour to flow it me. His Manuscript Copy is a Transcript of that Printed one which is preferved in the Landtgrave of Heffe's Library at Caffels; the very Book that was perused by Sandius, who gives an Account of it in his Eibliotheca Antitrinitariorum. The Book it felf was Printed (at Basil, says Sandins) in MDLIII. and is a Collection of all Servetus's Theological Tracks, though confiderably enlarged : Some of which, and particularly his Difcourses concerning the Trinity, had been published XX Years before. This I mention, because, if what Servetus fays of the Passage of the Blood through the Lungs be in the former Edition, the Discovery has fo much the greater Antiquity. The Paffages now in question, are in

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in the Fifth Book of the Trinity, where he treats of the Holy Ghoft :

There he takes pains to prove, (a) that the Sub- duces this Disputation, Stance of the Created Spirit of Jesus Christ is Effentially joined to the Sub-

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(a) He fays he introut inde intelligas ipfi Spiriths Sanchi Substantia effe Elfentialiter adjunctam creati Spiritus Christi Sub-Stantiam.

Stance of the Holy Ghost. To explain this, he talks much of God's Breathing the Soul into Man, which, by his manner of Explication, it is plain, he believed to be Material. The Way he proceeds is this : 'He sup-' poses Three Spirits in Man's Body,

"Natural, Vital, and Animal; which (b) Qui (fays he) are (b) really not Three, vere non funt tree, funt tree funt tres, 'but Two distinct Spirits. The sed duo Spi-· Vital is that which is communi- stingti. Vicated by Anastomoses from the talis est spi-. Arteries to the Veins, in which per Anaftamoses ab 'it is called Natural. The Blood Arteriis ' therefore is First, whole Seat is catur Venis, in quibus dicitur Naturalis. Primus ergo est Sanguis, cujus sedes est in hepate

& Corporis Venis : Secundus est Spiritus vitalis, cujus fedes est in corde, de corporis arteriis : Tertius est spiritus animalis, quasi lucis radius, cujus sedes est in cerebro of corporis nervis.

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'in the Liver and Veins: The *Vital Spirit* is Second, whofe Seat 'is in the Heart and Arteries: 'The Animal Spirit is Third, 'which is like a Ray of Light, 'and has its Seat in the Brain and 'Nerves.' So that he makes the beginning of the whole Operation to be in the Liver ; which, according to him, is the original Work-house of the Blood, which he calls the Soul or Life, as it is called in the Old Testament.

Now to understand how the

(c) Ad quam rem est prius intelligende Substantialis Generatio ipfius Vitalis Spiritus, qui ex Aere inspirato & subulistima Sanguine componitur or nultitur : Vitalis spiritus in sinistro cordis Ventriculo fuam originem habet, juvantibus maxime pulmonibus ad ipfius generationem. El fpiritus tenuis, caloris vi elaboratus, flavo colore, ignea potentia, ut fit quasi ex puriore sanguine Incens vapor, Jubstantiam continens aque, acris (5

Blood is the Life, he fays, (c) 'We muft firft 'underftand the fubftan-'tial Generation of the Vi-'tal Spirit, which is com-'pounded of, and nou-'rifhed by Infpired Air, 'and the fubtileft part of 'the Blood: The Vital 'Spirit has its original 'in the left Ventricle of 'the

c the Heart, by the af-' fistance of the Lungs, ' which chiefly contri-· bute to its generation. 'It is a subtile Spirit (so 'I render tennis here) ' wrought by the force ' of Heat; of a florid 'Colour, having the power of Fire : so that it is a fort of ' fhining Vapour made of the purer part of ' the Blood, containing ' within it felf the fub-'stance of Water, Air 'and Fire. It is made 'in the Lungs, by the ' mixture of Inspired Air " with that Elaborated Subtile Blood which 'the Right Ventricle of the Heart communi-

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ignis : generatur ex facta in pulmone mixtione inspirati aeris cum elaborato subtili sanguine, quem dexter ventriculus sinistro communicat. Fit autem communicatio hec non per parietem cordis medium, ut vulgo creditur, sed magno artificio à dextro cordis ventriculo, longo per pulmones ductu, agitatur fanguis Jubtilis : à pulmonibus præparatur, flavus efficitur, or à vena arteriosa in arteriam venosam transfunditur; deinde in ipså arterià venosà inspirato aëri miscetur, & exspiratione à fuligine repurgatur : atque ita tandem à finiftro cordis ventriculo totum mixtum per Diastolen attrahitur, apta supellex ut fiat spiritus vitalis.

Quod ita per pulmones fiat communicatio of praparatio, docet conjunctio varia or communicatio venæ arteriofæ cum arteria venosa in pulmonibus. Confirmat boc magnitudo infignis vene arteriose, que nec talis nec tanta fasta effet, nec tantam à corde ipfo vim purifimi fanguinis in pulmones emitteret ob folum eorum nutrimentum, nec cor pulmonibus hac ratione serviret, cum prefertim antea in embryone

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solerent pulmones ipsi aliunde nutriri ob membranulas seu — Cordis usque ad horam nativitatis nondum apertas, ut docet Galenus.

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XXX

" cates to the Left. Now this Com-' munication is not made through 'the Septum of the Heart, as is ' commonly believed, but the fubtil Blood is very artificially agitated 'by a long paffage through the · Lungs from the right Ventricle of ' the Heart, and is prepared, made ' florid by the Lungs, and transe fused out of the Arterious Vein 'into the Venous Artery, and at last ' in the Venous Artery it self it is mixed with the infpired Air, and · by exspiration purged from its 'Dregs. And thus at length the ' whole Mixture is attracted, by the ' Diastole of the Heart, into the left · Ventricle, being now a fit Sub-' ftance out of which to form the · Vital Spirit.

> 'Now that this Communication and Preparation is made by the Lungs, is evident from the various Conjunction and Communication of the Arterious Vein with the 'Venous

Venous Artery in the Lungs ; the ' remarkable largeness of the Arte-" rious Vein does likewife confirm 'it : fince it would never have ' been made of that Form and Bulk, 'nor would it have emitted fo 'great a quantity of very pure ' Blood out of the Heart into the 'Lungs, if it had been only for 'their Nourishment : nor would ' the Heart have been this way fer-'viceable to the Lungs, fince the · Fætus in the Womb are other-' wile nourished, by reason of the ' closeness of the Membranes of the 'Heart, which are never opened ' till the Birth of the Child, as Galen ' teaches.' So that the whole Mixture of Fire and Blood is made in the Lungs where there is a (d) 'Transfusion out of the Ar-' terious Vein into the Venous Artery,

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" which Galen took no notice of. (d) Transfusio à venâ arteriosa ad arteriam venosam propter spiritum, à Galeno non animada versa.

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XXXI

(e) Ille itaque spiritus aitalis à finistro cordis ventriculo in arterias totius corporis deinde transfunditur, ita ut qui tenuior est, superiora petat, ubi magis adhuc elaboratur, præcipue in plexu retiformi sub basi cerebri sito, ubi ex aitali siert incipit animalis ad propriam rationalis apimærationem accedens,

XXXII

Afterwards he fays, (e) 'That this Vital Spirit is tranf-'this Vital Spirit is tranf-'mitted from the left 'mitted from the left 'Ventricle of the Heart 'into the Arteries of the 'whole Body, fo that 'whole Body, fo that 'the more fubtile Parts 'get upwards where they 'ate yet more refined,

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especially in the Plexus Retiformis,
which lies in the Base of the Brain,
where, from Vital, it begins to
become Animal, and approaches to
the proper Nature of the Rational
Soul.

This he reasons long upon, to prove, that the Blood is the Soul of Man, and seems to allow no other but what is thus made; first elaborated in the Liver, thence carried by the Veins into the right Ventricle of the Heart, and so into the Lungs; where being mix'd with Air, it becomes Vital; and afterwards being carried by the Arteries into

XXXIII

into the Brain, it is there further fublimed, till it receives its laft Perfection, fo as to be fit to perform the nobleft Operations of the Animal Life.

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If we compare now this Notion thus explained by Servetus, with Dr. Harvey's Theory of the Circulation of the Blood, we shall plainly see that he had imperfect Glimmerings of that Light which afterwards Dr. Harvey communicated with fo bright a Lustre to the learned World : Which Glimmerings, fince they were fo true, having nothing in them of a Falle Fire, I much wonder that he went no further; though at the same time I cannot but heartily congratulate the Felicity of my own Country, which produced the Man that first faw the Importance of these noble Hints which he improved into a Theory, and thereby made them truly uleful to Mankind.

Before

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Before I conclude this *Poftfcript*, it will be expected, perhaps, that I fhould fay fomething concerning this New Edition. I have taken the liberty which all Men have ever allowed, to Alter and Add where I thought any thing was faulty or deficient, and now and then I omitted fome few Paffages that did not to immediately relate to the defign of the Book. ali

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By one of these Additions, that of Surgery, which Mr. Bernard put in at my request, it will be yet further seen, that I would have nothing allowed to the Moderns, where the Cause will not ftrictly bear it. I had conceded so much to them before, that it was generally thought I was bials'd on their behalf : It was not enough to tell the World I was of no Side, the contrary was taken for granted, fince in so many Particulars I actually gave them the Pre-eminence, when Sir W. T. had given it them almost

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almost in nothing. I must own, I was glad it could be proved that the World has not actually loft its Vigour, but that a gradual Improvement is plainly visible ; which this Instance that Mr. Bernard has fo incontestably made out, does by no means contradict. For Surgery, though it is the certainest, yet it is the simplest part of Medicine : There the Operator is more let into his Work, which does not depend fo much upon Conjecture as Phyfic. The reproach therefore of its comparatively small Proficiency, is to be laid upon the Men, not the Art ; it has been for these last Ages esteemed too Mechanical for Men of Liberal Education, and fine Parts, to busie themselves about : So that I question not but if as many learned Men had cultivated Surgery for these last CCC Years, as have employed themselves in some other Parts

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xxxvi POSTSCRIPT.

Parts of Natural and Mathematical Learning, it would have met with as proportionable an Encreafe; unlefs we should fay, that it is already come to its highest Perfection; which, whether it be or no, I cannot pretend to decide.

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to

The entire Discourses which are added, are printed by themfelves, for the Satisfaction of those who have bought the First Edition, and have no Curiofity to compare that with the Second. But I have not re-printed those leffer Additions which are interwoven into the Body of the Book, both because they would appear only like a parcel of loofe Scraps, and because fomething was to be done in compliance to the Book-feller, who, (having once more, at a time when Printing labours under fo great Discouragements, adventured

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to publish to large a Book which fo few People will care to read) defired that this Second Edition might be made as Valuable to him as well it cou'd,

April 30. 1697.

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CHAP. I. General Reflections upon the State of the Question.

HE prefent State of the Defigns and Studies of Mankind is fo very different from what it was CL Years ago, that it is no Wonder if Men's Notions concerning them vary as much as the Things themfelves. This great Difference has arifen from the Defire which every Man has, who believes that he can do greater Things than his Neighbours, of letting them fee how much he does excel them : For that will neceffarily oblige him to omit no Opportunity that offers it felf to do it, and B after-

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afterwards to express his Satisfaction that he has done it. This is not only visible in particular Perfons, but in the feveral Ages of Mankind, (which are only Communities of particular Perfons, living at the fame time,) as often as their Humours, or their Interests, lead them to pursue the fame Methods. This Emulation equally fhews it felf, whatfoever the Subject be, about which it is employed ; whether it be about Matters of Trade, or War, or Learning, it is all one : One Nation will strive to out-do another, and fo will one Age too, when feveral Nations agree in the pursuit of the fame Defign; only the Jealousie is not fo great in the Contest for Learning, as it is in that for Riches and Power; because these are Things which enable their Possessors to do their Neighbours greater mischief proportionably as they posses them, fo that it is impossible for bordering Nations to fuffer with any patience that their Neighbours should grow as great as they in either of them, to their own prejudice ; though they will all agree in raifing the Credit of the Age they live in upon the Account of these Advantages, that being the only Thing wherein their Interefts do perfectly unite.

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If this Way of Reafoning will hold, it may be asked how it comes to pais, that the

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the Learned Men of the last Age did not fo generally pretend that they out-did the Ancients, as our present Learned Men do now ? They would, without queftion. could they have had any Colour for it : It was the Work of one Age to remove the Rubbish, and to clear the Way for future Inventors. Men feldom ftrive for Maftery, where the Superiority is not in fome fort difputable ; then it is that they begin to strive : Accordingly, as foon as there was a fair Pretence for fuch a Difpute, there were not wanting those who made the most of it, both by exalting their own Performances, and difparaging every Thing that had been done of that kind by their Predeceffors. 'Till the New Philosophy had gotten ground in the World, this was done very fparingly; which is but within the compass of XL or LYears. There were but few before, who would be thought to have exceeded the Ancients, unlefs it were fome Phyficians, who fet up Chymical Methods of Practice, and Theories of Difeafes, founded upon Chymical Notions, in opposition to the Galenical : But these Men, for want of conversing much out of their own Laboratories, were unable to maintain their Caufe to the general Conviction of Mankind : The Credit of the Cures which they B 2

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Reflections upon

they wrought, not fupporting them enough against the Reasonings of their Adversaries.

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Soon after the Reftauration of King Charles II. upon the Institution of the Royal Society, the Comparative Excellency of the Old and New Philosophy was eagerly debated in England. But the Difputes then managed between Stubbe and Glanvile, were rather Particular, relating to the Royal Society, than General, relating to Knowledge in its utmost extent. In France this Controversie has been taken up more at large : The French were not fatisfied to argue the Point in Philofophy and Mathematicks, but even in Poetry and Oratory too; where the Ancients had the general Opinion of the Learned on their Side. Monsieur de Fontenelle, the celebrated Author of a Book concerning the Plurality of Worlds, begun the Difpute about fix Years ago, in a little Difcourse annexed to his Pastorals. He is something fly in declaring his Mind ; at least, in arraigning the Ancients, whofe Reputations were already established ; though it is plain, he would be underftood to give the Moderns the Preference in Poetry and Oratory, as well as in Philosophy and Mathematicks. His Book being received in France with great Applause, it was oppoled

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posed in England by Sir William Temple, who, in the Second Part of his Miscellanea, has printed an Essay upon the same Subject. Had Monsieur de Fontenelle's Discourse passed unquestion'd, it would have been very strange; since there never was a New Notion started in the World, but some were found who did as eagerly contradict it.

The Hypothesis which Sir William Temple appears for, is received by fo great a Number of Learned Men, that those who oppose it, ought to bring much more than a politive Affirmation ; otherwife, they cannot expect that the World should give Judgment in their Favour. The Question now to be asked, has formerly been enquired into by few, befides those who have chiefly valued Oratory, Poefie, and all that which the French call the Belles Lettres; that is to fay, all those Arts of Eloquence, wherein the Ancients are of all hands agreed to have been truly excellent. So that Monsieur de Fontenelle took the wrong Course to have his Paradox be believed; for he afferts all, and proves little ; he makes no Induction of Particulars, and rarely enters into the Merits of the Caufe : He declares, that he thinks Love of Ease to be the reigning Principle amongst Mankind ; for which Reason, 3 B perhaps.

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Reflections upon

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perhaps, he was loth to put himfelf to the trouble of being too minute. It was no wonder therefore if those to whom his Proposition appeared entirely New, condemned him of Sufficiency, the worst Composition out of the Pride and Ignorance of Mankind.

However, fince his Reafonings are, in the main, very juft, efpecially where he difcourfes of the Comparative Force of the Genius's of Men in the feveral Ages of the World, and of the Equal Force of Mens Understandings abfolutely confidered in all Times fince Learning first began to be cultivated amongst Mankind, I refolved to make fome Enquiry into the Particulars of those Things which are afferted by fome to be Modern Difcoveries, and vindicated to the Ancients by others.

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The General Proposition which Sir William Temple endeavours to prove in his Essay, is this, "That if we reflect "upon the Advantages which the Ancient Greeks and Romans had, to improve themselves in Arts and Sciences, above what the Moderns can pretend to; and upon that Natural Force of Genius, fo differnible in the earliest Writers, whose Books are still extant, which has not been equalled in any Persons "that

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that have fet up for Promoters of Know"ledge in thefe latter Ages; and compare the Actual Performances of them
both together, we ought in Juffice to
conclude, that the Learning of the prefent Age, is only a faint, imperfect
Copy from the Knowledge of former
Times, fuch as could be taken from thofe
fcatter'd Fragments which were faved
out of the general Shipwreck.

The Queftion that arifes from this Propolition will be fully understood, if we enquire, (1.) Into those Things which the Ancients may have been fuppofed to bring to Perfection, (in cafe they did fo,) not because they excelled those that came after them in Understanding, but because they got the Start by being born first. (2.) Whether there are any Arts or Sciences which were more perfectly practifed by the Ancients, though all imaginable Care hath been fince used to equal them. (3.) Whether there may not be others wherein they are exceeded by the Moderns, though we may reasonably suppose that both Sides did as well as they could.

When fuch Enquiries have once been made, it will be no hard matter to draw fuch Inferences afterwards, as will enable us to do Juftice to both Sides.

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It must be owned, that these Enquiries do not immediately refolve the Question which Sir William Temple put, for he confounds two very different Things together; namely, Who were the Greatest Men, the Ancients, or the Moderns ? and, Who have carried their Enquiries farthest ? The first is a very proper Queftion for a Declamation, though not fo proper for a Discourse, wherein Men are supposed to reason severely; because, for want of Mediums whereon to found an Argument, it cannot eafily be decided : For, though there be no furer Way of judging of the Comparative Force of the Genius's of feveral Men, than by examining the refpective Beauty or Subtilty of their Performances; yet the good Fortune of appearing first, added to the Misfortune of wanting a Guide, gives the first Comers so great an Advantage, that though, for instance, the Fairy Queen, or Paradife Loft, may be thought by fome to be better Poems than the Ilias; yet the fame Perfons will not fay but that Homer was at least as great a Genius as either Spencer or Milton. And befides, when Men judge of the Greatness of an Inventors Genius barely by the Subtilty and Curiofity of his Inventions, they may be very liable to Mistakes in their Judgments, unless they know and are able to judge of the Eafinefs or

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or Difficulty of those Methods, or Ratiocinations, by which he arrived at, and perfected these his Inventions; which, with due Allowances, is equally applicable to any Performances in Matters of Learning of any fort.

It will however be fome Satisfaction to those who are concerned for the Glory of the Age in which they live, if, in the first place it should be proved, That as there are fome parts of real and useful Knowledge, wherein not only great Strictness of Reafoning, but Force and Extent of Thought is required thoroughly to comprehend what is already invented, much more to make any confiderable Improvements, fo that there can be no Difpute of the Strength of fuch Men's Understandings, who are able to make fuch Improvements; fo in those very Things, fuch, and so great Difcoveries have been made, as will oblige impartial Judges to acknowledge, that there is no probability that the World decays in Vigour and Strength, if (according to Sir William Temple's Hypothefis) we take our Estimate from the Measure of those Men's Parts, who have made these Advancements in these later Years; especially, if it should be found that the Ancients took a great deal of Pains upon these very Subjects, and had able Masters 2500 to

Reflections upon

to instruct them at their first fetting out : And, Secondly, If it should be proved, that there are other curious and ufeful Parts of Knowledge, wherein the Ancients had as great Opportunities of advancing and purfuing their Enquiries, as the Moderns, which were either flightly passed over, or wholly neglected, if we fet the Labours of fome few Men afide : And, Laftly, If it fhould be proved, that by fome great and happy Inventions, wholly unknown to former Ages, new and fpacious Fields of Knowledge have been discovered, and, purfuant to those Difcoveries, have been viewed, and fearched into, with all the Care and Exactnels which fuch noble Theories required. If these Three Things should be done, both Queftions would be at once refolved, and Sir William Temple would fee that the Moderns have done fomething more than Copy from their Teachers, and that there is no abfolute neceffity of making all those (a) Pag. 5. melancholy Reflections upon (a) the Suff-55, 56. ciency and Ignorance of the present Age, which he, moved with a just Resentment and Indignation, has thought fit to beflow upon it.

> How far these Things can or cannot be proved, shall be my Butiness in these following Papers to enquire. And in these Enquiries

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ries I shall endeavour to act the part of a Mediator as nicely as I can, that so those who may not perhaps be fatisfied with the Force of my Reasonings, yet may acknowledge the Impartiality of him that makes use of them. But First, Of those Things wherein, if the Ancients have so far excelled as to bring them to Perfection, it may be thought that they did it because they were born before us.

noiserolia CHAP. II.

Of the Moral and Political Knowledge of the Ancients and Moderns.

Have often thought that there could not be a pleafanter Entertainment to an inquifitive Man, than to run over the firft Reafonings which he had in his Infancy, whilft he was gathering his Collection of *Idea's*, and labouring to express those Sounds, by which he perceived his Mother and Nurfe made themselves be understood. We should then see the true Gradations by which Knowledge is acquired: We should judge, perhaps, what is in it felf hard, and what easie, and also what it is that makes them so; and thereby II

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by make a better Eftimate of the Force of Men's Understandings, than can now be made. But this Reminiscence of our first Idea's it is in vain to lament for, fince it can never be had. Yet it may in general be observed, that the first Thoughts of Infants are concerning Things immediately necessary for Life. That Necessity being in fome measure fatisfied, they fpend their Childhood in Pleafure, if left to their own liberty, till they are grown up. Then they begin to reflect upon the Things that relate to Prudence and Difcretion, and that more or lefs, according as their Circumstances oblige them to carry themfelves more or lefs warily towards those with whom they converfe. This is, and ever was, general to all Mankind; whereas they would not take fo much pains to cultivate the Arts of Luxury and Magnificence, if they were not fpurr'd on by Pride, and a Defire of not being behind other Men. So that it is reasonable to fuppofe, that, all those Things which relate to Moral Knowledge, taken in its largest Extent, were understood by the ancient Ægyptians, Greeks and Romans, in as great Perfection as the Things themfelves were capable of. The Arts of Governing of Kingdoms and Families; of Managing the Affections and Fears of the

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Ancient and Modern Learning.

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the unconstant Multitude; of Ruling their Paffions, and Difcourfing concerning their feveral Ways of Working; of Making prudent Laws, and Laying down wife Methods by which they might be the more eafily and effectually obeyed; of Conversing each with other; of Giving and Paying all that Respect which is due to Men's feveral Qualities : In fhort, all that is commonly meant by knowing the World, and understanding Mankind; all Things necessary to make Men Wife in Counfel, Dexterous in Business, and Agreeable in Conversation, feem to have been in former Ages thoroughly underftood, and fuccefsfully practifed.

There is, indeed, great Reafon to fear, that in the Arts of Knavery and Deceit, the prefent Age may have refined upon the foregoing; but that is fo little for its Honour, that common Decency does almost as much oblige me to throw a Veil over this Reproach, as common Interest does all Mankind to put an effectual Stop to its Encrease. But fince we are enquiring into Excellencies, not Blemishes and Imperfections, there seems to be great Reafon to affirm, that After-Ages had no need to invent Rules, which already were laid down to their Hands; but that their Business was chiefly to reexamine

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Reflections upon

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examine them, and to fee which were proper for their Circumftances, confidering what Alterations Time fenfibly introduces into the Cuftoms of every Age ; and then to make a wife Choice of what they borrowed, that fo their Judgment might not be queftion'd by those who should have the Curiofity to compare the Wisdom of feveral Ages together.

If we defcend into Particulars, these Observations will, I believe, be found to be exactly true : The minutest Differences between Vertue and Vice of all forts, are judiciously stated by Aristotle, in his Ethicks to Nicomachus; and the Workings of our Paffions are very critically defcribed in his Books of Rhetorick. Xenophon's Cyrus flews that he had a right Notion of all those Things which will make a Prince truly Great and Wife. The Characters of all those Vices which are immediately taken notice of in common Converfation, are admirably drawn by Theophrastus. Nothing can give a clearer Idea of one that has lived in Difficult Times. than the Writings of Tacitus; in whofe Histories, almost every Thing is told in fuch a Way, as we find by our own Experience that Ill Ulage and Dilappointments lead Men to cenfure and report the Actions of their Governors. Great Skill in.

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in all the Arts and Secrets of Perfuafion appear every where in Demosthenes and Tully's Orations, in Quinctilian's Inftitutions, and the Orations in Thucydides. Salluft and Livy. The Duties of Mankind in Civil Life, are excellently fet forth in Tully's Offices. Not one Passion of the Soul of Man has been untouch'd, and that with Life too, by fome or other of the Ancient Poets. It would require a Volume to flate these Things in their full Light; and it has been frequently done by those who have given Characters and Cenfures of Ancient Authors. So that one may justly conclude, that there is no one Part of Moral Knowledge, strictly fo called, which was not known by the Ancients, fo well as by the Moderns.

But it would be a wrong Inference to conclude from thence, that the Ancients were greater Genius's than the Men of the prefent Age. For, by Sir William Temple's Confession (b), the Chineses and Peru- (b) Esay 3. vians were governed by excellent Laws : "pon He-And Confucius and Mango Capac may well rue, feet. be reckoned amongst the Law-givers and 2, 3. Philosophers of those which are commonly called Learned Nations ; though neither of them, especially the Latter, can juftly be suspected of learning what they knew

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knew by Communication from their Neighbours. From whence Sir William Temple rightly concludes, that Common Senfe is of the Growth of every Country; and that all People who unite into Societies, and form Governments, will in time make prudent Laws of all kinds; fince it is not Strength of Imagination, nor Subtilty of Reafoning, but Conftancy in making Obfervations upon the feveral Ways of Working of Humane Nature, that first stored the World with Moral Truths, and put Mankind upon forming fuch Rules of Practice as best fuited with these Observations. There is no Wonder therefore, that in a long Series of Ages, which preceded Socrates and Plato, these Matters were carried to a great Perfection ; for as the Necessity of any Thing is greater, fo it will be more and more generally ftudied : And as the Subject of our Enquiries is nearer to us, or eafier to be comprehended in it felf; fo it will be more thoroughly examined, and what is to be known, will be more perfectly underftood. Both these concurr here : Necessity of Conversing with each other, put Men upon making numerous Observations upon the Tempers of Mankind : And their own Nature being the Thing enquired after, all Men could make their Experiments at home ;

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home; which, in Confort with those made with and by other People, enabled them to make certain Conclusions of Eternal Truth, fince Mankind varies little, if any thing, any farther than as Cuftoms alter it, from one Age to another. Since therefore this Necessity always lasts, and that all the Observations requisite to compleat this noble Science, as it takes in the Art of Governing Kingdoms, Families, and Men's private Perfons, cannot be made by one or two Generations, there is a plain Reafon why fome Nations, which wanted Opportunities of diffused Conversation, were more barbarous than the reft; and alfo, why others, which for many Ages met with no Foreign Enemies that could overturn their Conftitutions, should be capable of improving this part of Knowledge as far as unaffifted Reason was able to carry it.

For, after all, how weak the Knowledge of the ancient Heathens was, even here, will appear by comparing the Writings of the old Philofophers, with those Moral Rules which Solomon left us in the Old Testament, and which our Blessed Saviour and his Apostles laid down in the New. Rules so well fuited to the Reason of Man, so well adapted to civilize the World, and to introduce that true Hap-C piness

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pinefs which the old Philofophers fo vainly ftrove to find, that the more they are confidered, the more they will be valued; and accordingly they have extorted even from thofe who did not believe the Chriftian Religion, juft Applaufes, which were certainly unbiaffed, becaufe, not being led by the Rewards which it propofes, nor deterred by the Punifhments which it threatens, they could have no Motive to commend them but their own native Excellency.

It is evident therefore, that though in fome fence the Moderns may be faid to have learned their *Politics* and *Ethics* from the Ancients, yet there is no convincing Argument that can be brought from those Sciences, fingly confidered, that the Ancients had a greater Force of Genius than the wife and prudent Men of these later Generations. If, indeed, in all other Sciences, Mankind has for MD Years been at a full Stop, the Perfection of the Ancient *Politics* and *Ethics* may be juftly urged, amongst other Arguments, for the comparative Strength of their Parts; otherwife not.

But there are other Parts of Learning, that may feem capable of farther Improvement; of which, the Advocates for the Ancients do not only pretend that they

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they were the Inventors, but that their Performances have never fince been equalled, much lefs out-done; though within these last cc Years all imaginable Pains have been taken to do it; and great Rewards have been given to those who have, licet non passibus æquis, laboured to come near the Copies which were already fet them. From whence these Men think it probable, that all Modern Learning is but Imitation, and that faint and flat, like the Paintings of those who draw after Copies at a Third or Fourth Hand from the Life. Now, as this can only be known by an Induction of Particulars, fo of these Particulars there are Two forts : One, of those wherein the greatest part of those Learned Men who have compared Ancient and Modern Performances. either give up the Caufe to the Ancients quite, or think, at least, that the Moderns have not gone beyond them. The other of those, where the Advocates for the Moderns think the Cafe fo clear on their Side, that they wonder how any Man can difpute it with them. Poefie, Oratory, Architecture, Painting, and Statuary, are of the First Sort : Natural Hiflory, Physiology, and Mathematics, with all their Dependencies, are of the Second. FIGISSVEE

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Of Ancient and Modern Eloquence and Poesie.

T is univerfally acknowledged, that he who has fludied any Subject, is a better Judge of that Subject than another Man who did never purpofely bend his Thoughts that way, provided they be both Men of equal Parts. Yet we fee there are many Things, whereof Men will, at first fight, pass their Judgment, and obstinately adhere to it, though they not only know nothing of those Matters, but will confess that it requires Parts, and Skill, and Exercife, to be excellent in them. This is remarkably visible in the Cenfures which are paffed upon Pieces of Oratory and Poefie every Day by those who have but little of that fort of Learning themfelves; and to whom all that is faid of critical Skill in those Things, and of a true Relish of what is really fine, is Jargon and Cant. And in the mean time, these Men do in other Things fhew great Accuracy and Judgment, even in Subjects which require quick Apprehension, nice Observation, and

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and frequent Meditation. If one should ask why fuch Men fo frequently miftake and differ in those other Matters, the Anfwer, I think, is this : (1.) The Foundations of Eloquence of all forts lying in Common Sence, of which every Man is in some degree a Master, most ingenious Men have, without any Study, a little Infight into these Things. This little Infight betrays them immediately to declare their Opinions, because they are afraid, if they should not, their Reputation would be in danger. On the contrary, where the Subject is fuch, that every Man finds he can frame no Idea of it in his own Mind, without a great number of Premises, which cannot be attained by common Conversation, all wife Men hold their Tongues, fuspect their own Abilities, and are afraid that they cannot fathom the Depth of his Knowledge with whom they converse; especially if he has a Name for Skill in those Matters. And therefore, talk with fuch Men of a Law-Cafe, or a Problem in Geometry, if they never studied those Things, they will frankly tell you fo, and decline to give their Opinion. Whereas if you speak to them of a Poem, a Play, or a Moral Difcourse upon a Subject capable of Rhetorical Ornaments, they will immediately C 3 pals Raing

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pass their Censure, right or wrong ; and Twenty Men, perhaps, fhall give Twenty different Opinions; whilst, in the other Cafes, fcarce Two of the Twenty shall difagree, if they are confcious to themfelves that they have Skill enough to judge without another's help. (2.) In most of these Things our Passions are fome way or other concerned; at leaft. being accuftomed to have them moved, we expect it, and think our felves difappointed when our Expectation is deceived. Now, when a Man is to judge in Matters of this kind, he generally before-hand is pre-poffeffed with fuch Paffions as he would willingly have raifed, or confirmed ; and fo fpeaks as his Expectation is answered. But when our Paffions do not move in these Matters, as they feldom do upon Subjects a great way off, then our Cenfures are more unanimous. For, as the Poet fays,

Securus licet Æneam Rutulumque ferocem Committas; nulli gravis est percussus Achilles.

So that there is no great Wonder why Men fhould receive the Writings of the Ancients with fo great Respect : For the Distance of Time takes off Envy; and the being

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being accustomed from our Childhood to hear them commended, creates a Reverence. Yet though due Allowances ought to be made for these Pre-possessions, one has Reason to believe, that this Reverence for the ancient Orators and Poets is more than Prejudice. (By Orators, Iunderstand all those Writers in Profe who, have taken pains to beautifie and adorn their Stile.) Their Works give us a very folid Pleafure when we read them. The best in their kind among the Moderns have been those who have read the Ancients with greatest Care, and endeavoured to imitate them with the greatest Accuracy. The Masters of Writing in all these several Ways, to this Day, appeal to the Ancients, as their Guides; and still fetch Rules from them, for the Art of Writing. Homer, and Aristotle, and Terence, and Virgil, and Horace, and Ovid, are now fludied as Teachers, not barely out of Curiofity, by Modern Poets. So likewife are Demosthenes, Aristotle, Tully, Quinctilian, and Longinus, by those who would write finely in Profe. There is reason therefore to think that in these Arts the Ancients may have out-done the Moderns ; though neither have they been neglected in these later Ages, in which we have feen extraordinary Productions, which Think C 4

which the Ancients themfelves, had they been alive, would not have been ashamed of.

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If this be fo, as I verily believe it is, fure now (it will be objected) It is evident that the Ancients had a greater Force of Genius than the Moderns can pretend to. Will it be urged, that here also they had an Advantage by being born first? Have these Arts a fixed Foundation in Nature; or were they not attained to by Study? If they come by Nature, why have we heard of no Orators among the Inhabitants of the Bay of Soldania, or eminent Poets in Peru? If they are got by Study, why not now, as well as formerly, fince Printing has made Learning cheap and easie? Can it be thought harder to Speak and Write like Cicero or Virgil, than to find out the Motions of the Heavens, and to calculate the Diftances of the Stars? What can be the

The Reafons are feveral, and fcarce one of them of fuch a Nature as can now be helped, and yet not conclusive against the Comparative Strength of Understanding, evidently difcernible in the Productions of the Learned Men of the prefent, and immediately foregoing Ages; to which I would here be understood ftrictly

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ftrictly to confine my Notion of the word *Modern*. These Reasons I shall examine at large, because, if they are valid, they quite take away the Force of Sir *William Temple's* Hypothesis; and by removing the blind Admiration now paid to the Ancient Orators and Poets, set it upon such a Foot as will render the Reading of their Books more useful, because less superftitious. They are of several forts; some relating to *Oratory*, some to *Poesse*, and some in common to both.

I shall first speak of those which relate more particularly to Poetry, because it was much the ancienteft way of Writing in Greece ; where their Orators owned, that they learned a great deal of what they knew, even in their own, as well as in other Parts of Learning, from their Poets. And here one may observe, that no Poetry can be Charming that has not a Language to support it. The Greek Tongue has a vaft Variety of long Words, wherein long and fhort Syllables are agreeably intermixed together, with great Numbers of Vowels and Diphthongs in the Middle-Syllables, and those very feldom clogged by the joining of harshfounding Confonants in the fame Syllable : All which Things give it a great Advantage above any other Language that has

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has ever yet been cultivated by Learned Men. By this Means all manner of Tunable Numbers may be formed in it with Eafe ; as fill appears in the remaining Dramatic and Lyric Composures of the Greek Poets. This feems to have been at first a lucky Accident, fince it is as visible in Homer, who liv'd before the Grammarians had determined the Analogy of that Language by Rules ; which Rules were, in a very great measure, taken from his Poems, as the Standard; as in those Poets that came after him. And that this peculiar Smoothness of the Greek Language was at first Accidental, farther appears, because the Phænician or Hebrew Tongue, from whence it was formed, as molt Learned Men agree, is a rough, unpolished Tongue, abounding with short Words, and harfh Confonants : So that if one allows for fome finall Agreement in the Numbers of Nouns, and Variations of Tenfes in Verbs, the two Languages are wholly of a different Make. That a derived Language fhould be fweeter than its Mother-Tongue, will feem ftrange to none that compares the Modern Tuscan with the Ancient Latin; where, though their Affinity is visible at first fight, in every Sentence, yet one fees that that derived Language actually has a Sweetnefs and

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and Tunableness in its Composition, that could not be derived from its Parent; fince nothing can impart that to another, which it has not it felf : And it shews likewife, that a Barbarous People, as the Italians were when mingled with the Goths and Lombards, may, without knowing or minding Grammatical Analogy, form a Language fo exceedingly Musical, that fcarce any Art can mend it. For, in Boccace's Time, who liv'd above CCC Years ago, in the earlieft Dawnings of Polite Learning in these Western Parts of the World, Italian was a formed Language, endued with that peculiar Smoothness which other Europæan. Languages wanted; and it has fince fuffered no fundamental Alterations; not any, one fhould think, for the better, fince in the Dictionary of the Academy della Crusca, Boccace's Writings are constantly appealed to, as the Standards of the Tongue. Nay, it is still difputed among the Criticks of the Italian Language, whether (c) Dante, (c): Boccace, Petrarch, and Villani, who were li Pen, all Contemporaries, are not the Valuablest Tafoni as well as the Ancientest Authors they lib. is have. Cap. 14

Now, when this Native Smoothnefs of the Greek Tongue was once difcovered to common Ears, by the fweetnefs of their Verfes, which depended upon a Regular Compo-

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Composition of Long and Short Syllables, all Men paid great Respect to their Poets, who gave them fo delightful an Entertainment. The wifer Sort took this Opportunity of Civilizing the reft, by putting all their Theological and Philofophical Instructions into Verse; which being learn'd with Pleafure, and remembred with Eafe, help'd to heighten and preferve the Veneration already, upon other Scores, paid to their Poets. This encreafed the Number of Rivals, and every one firiving to out-doe his Neighbour; fome by varying their Numbers, others by chuling Subjects likely to pleafe, here and there fome, one or two at least of a fort, proved excellent : And then those who were the most extraordinary in their feveral Ways, were effeemed as Standards by fucceeding Ages; and Rules were framed by their Works, to examine other Poems of the fame fort. Thus Aristotle framed Rules of Epic Poefie from Homer : Thus Aristophanes, Menander, Sophocles and Euripides were looked upon as Masters in Dramatic Poefie; and their Practice was fufficient Authority. Thus Mimnermus, Philetas and Callimachus were the Patterns to following Imitators for Elegy and Epigram. Now, Poetry being a limited Art, and these Men, after the often-repeated Trials of others, had proved fuccefslefs :

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fuccefslefs; finding the true Secret of pleafing their Country-men, partly by their Wit and Sence, and partly by the inimitable Sweetness of their Numbers, there is no wonder that their Succeffors, who were to write to a pre-possessed Audience, though otherwife Men of equal, perhaps greater Parts, failed of that Applause of which the great Masters were already in possession; for Copying nauseates more in Poetry, than any thing : So that Sannazarius and Buchanan, tho' admirable Poets, are not read with that Pleafure which Men find in Lucretius and Virgil, by any but their Country-men; becaufe they wrote in a dead Language, and fo were frequently obliged to use the fame Turns of Thought, and always the fame Words and Phrafes, in the fame Sence in which they were used before by the Original Authors; which forces their Readers too often to look back upon their Masters; and so abates of that Pleafure which Men take in Milton, Cowley, Butler, or Dryden, who wrote in their Mother-Tongue, and fo were able to give that unconstrained Range and Turn to their Thoughts and Expressions that are truly neceflary to make a compleat Poem.

It may therefore be reafonably believed, that the natural Softnefs, Expressiveness and Fulness of the Greek Language gave great

great Encouragement to the Greek Poets to labour hard, when they had fuch manageable Matter to work upon, and when fuch Rewards constantly attended their This likewife was a great help Labours. to their Orators, as well as their Poets; who foon found the Beauties of a numerous Composition, and left nothing undone, that could bring it to its utmost Perfection. But this was not to important a Confideration, as alone to have encouraged the Greeks to cultivate their Eloquence, if the Conftitution of their Governments had not made it neceffary; and that Neceffity had not obliged great Numbers of ingenious Men to take Pains about it.

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Most part of Greece, properly fo called, and of Aha the Leß, the Coafts of Thrace, Sicily, the Iflands in the Mediterranean, and a great part of Italy, were long divided into a very many Kingdoms and Commonwealths; and many of these small Kingdoms, taking Example by their Neighbouring Cities that had thrown off their imperious Masters, turned, in time, to Commonwealths, as well as they. Thefe. as all little Governments that are contiguous, being well nigh an even Match for each other, continued for many Ages in that Condition. Many of the chiefeft were Democracies; as, the Republics of Athens, Syracufe,

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Syracufe, Thebes and Corinth ; where it was neceffary to complement the People upon all Occasions: So that busie, factious Men had Opportunities enough to fhew their Skill in Politics. Men of all Tempers, and all Defigns, that would accuse or defend, that would advise or confult, were obliged to address themselves in set Harangues to the People. Intereft therefore, and Vanity, Motives fometimes equally powerful, made the Study of Rhetoric neceffary; and whilft every Man followed the feveral Biafs of his own Genius, fome few found out the true Secret of Pleafing, in all the feveral Ways of Speaking well, which are fo admirably and fo largely difcourfed of by the ancient Rhetoricians. Demosthenes being efteem'd beyond all his Predeceffors, for the Correctness of his Stile, the Justness of his Figures, the Easiness of his Narrations, and the Force of his Thoughts ; his Orations were look'd upon as Standards of Eloquence by his Country-men : Which Notion of theirs effectually dampt future Endeavours of other Men, fince here, as well as in Poetry and Painting, all Copiers will ever continue on this fide of their Originals. And befides, the great End of Oratory being to perfuade, wherein Regard must be had to the Audience, as well

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as to the Subject, if there be but one Way of doing beft at the fame time in both, as there can be but one in all limited Arts or Sciences, they that either firft find it out, or come the neareft to it, will unqueftionably, and of Right, keep the firft Station in Men's Efteem, though perhaps they dare not, for fear of difgufting the Age they live in, follow those Methods which they admire fo much, and fo juftly, in those great Masters that went before them.

That these Accidents, and not a particular Force of Genius, raifed the Gracian Poefie and Oratory, will farther appear, if we reflect upon the Hiftory of the Rife and Encrease of both those Arts amongst the Romans : Their Learning, as well as their Language, came originally from Greece; they faw what was done to their Hands, and Greek was a living Language ; and fo, by the help of Mafters, they could judge of all its Beauties. Yet, with all their Care, and Skill, and Pains, they could not, of a long time, bring their Poetry to any Smoothnefs; they found their Language was not fo ductile, they owned it, and complained of it. It had a Majeftick Gravity, derived from the People themfelves who fpoke it; which made it proper for Philosophical and Epical Poems; for

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for which Reason, Lucretius and Virgil were able to do fo great Things in their feveral Ways, their Language enabling them to give the most becoming Beauties to all their Thoughts. But there not being that Variety of Feet in the Latin, which Language, for the most part, abounds in Dactyles, Spondees and Trochees ; nor that Sprightliness of Temper, and in-bred Gaiety in the Romans, which the Greeks are to this Day famous for, even to a Proverb, in many parts of Poetry they yielded, though not without Reluctancy, to a People whom they themfelves had conquered. Which fhews, that there are fome Imperfections which cannot be overcome : And when these Imperfections are accidental, as the Language is which every Man speaks at first, though he has equal Parts, and perhaps greater Industry, yet he shall be thrown behind another Man who does not labour under those Inconveniences; and the Diftance between them will be greater, or lefs, according to the Greatness or Quality of these Inconveniences.

If we look into the chiefeft Modern Languages, we fhall find them labouring under much greater : For, the Quantities of Syllables being in a great measure neglected in all Modern Languages, we can-D

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not make use of that Variety of Feet which was anciently used by the Greeks and Romans, in Modern Poems. The Guide of Verses is not now Length of Syllable, but only Number of Feet, and Accent : Most of the French Accents are in the last Syllable; Ours, and the Italian, in the fore-going. This fits French for fome forts of Poems, which Italian and English are not fo proper for. Again, All Syllables, except the Accented one in each Word, being now common in Modern Languages, we Northern People often make a Syllable fhort that has two or three Confonants in it, becaufe we abound in Confonants: This makes English more unfit for some Poems, than French and Italian; which having fewer Confonants, have confequently a greater Smoothness and Flowingness of Feet, and Rapidity of Pronunciation.

I have brought these Instances out of Modern Languages, whereof Sir William Temple is so great a Master, to prove my first Assertion; namely, That though a very great deal is to be given to the Genius and Judgment of the Poet, which are both absolutely necessary to make a good Poem, what Tongue soever the Poet writes in; yet the Language it felf has so great an Instuence, that if Homer and Virgil

Virgil had been Polanders, or High-Dutchmen, they would never, in all probability, have thought it worth their while to at-

tempt the Writing of Heroick Poems; Virgil especially, (d) who began to write an Hiftorical Poem of fome great Actions of his Country-men ; but was fo gravell'd with the Roughness of

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the Roman Names, that he laid it alide. Now, as the Roman Poetry arrived to that Perfection which it had, becaufe it was supported by a Language, which, tho' in fome Things inferiour to the Greek, had feveral noble and charming Beauties, not now to be found in Modern Languages; to the Roman Oratory was owing to their Government : Which makes the Parallel much more perfect: And all those Reasons alledged already for the Growth of the Attic Eloquence, are equally applicable to the History of the Roman; fo that there is no neceffity of Repeating them. To which we may add, That when the Romans once loft their Liberty, their Eloquence foon fell: And Tacitus (or Quinctilian) needed not have gone fo far about to fearch for Reafons of the Decay of the Roman Eloquence. Tully left his Country and Profession, after his Defence of S. Roscius Amerinus; refolving to give over Pleading, D 2 it

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if Sylla's Death had not reftored that Freedom which only gave Life to his Oratory : And when the Civil Wars between Pompey and Cæfar came on, he retired, becaufe his Profession was superfeded by a rougher Rhetoric, which commands an Attentive Audience in all Countries where it pleads.

When Orators are no longer Conftituent Parts of a Government, or, at least, when Eloquence is not an almost certain Step to arrive at the chiefeft Honours in a State, the Necessity of the Art of Speaking, is, in a great measure, taken off; and as the Authority of Orators leffens, which it will infenfibly do, as Tyranny and Abfolute Power prevail, their Art will dwindle into Declamation, and an Affectation of Sentences, and Forms of Wit. The Old Men, who out-live their former Splendour, will, perhaps, fet their own Scholars and Auditors right, and give them a true Reliff of what is Great and Noble ; but that will hardly continue above one or two Generations. Which may be fuperadded as another Reafon why there were no more Demosthenes's or Tully's, after the Macedonian and Roman Emperors had taken away the Liberty of the Græcian and Roman Commonwealths. It is Liberty alone which infpires Men with Lofty Thoughts,

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Thoughts, and elevates their Souls to a higher Pitch than Rules of Art can direct. Books of Rhetoric may make Men Copious and Methodical ; but they alone can never infufe that true Enthufiaftic Rage which Liberty breaths into their Souls who enjoy it ; and which, guided by a Sedate Judgment, will carry Men farther than the greateft Industry, and the quickeft Parts can go without it.

When Private Members of a Commonwealth can have Foreign Princes for their Clients, and plead their Caufes before their Fellow-Citizens; when Men have their Understandings enlarged, by a long Use of public Business, for many Years before they speak in publick; and when they know that their Auditory are Men, not only of equal Parts, and Experience in Business; but also many of them Men of equal, if not greater Skill in Rhetoric than themselves : Which was the Case of the Old Romans. These Men, inflamed with the mighty Honour of being Patrons to Crowned Heads, having Liberty to speak any Thing that may advantage their Caule, and being obliged to take lo great Pains to get up to, or to keep above fo many Rivals, must needs be much more excellent Orators, than other Ages, deftitute of fuch concurrent Circumstances, though D 3

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though every thing elfe be equal, can poffibly produce.

Befides all this, the Humour of the Age in which we live is exceedingly altered : Men apprehend or fulpect a Trick in every Thing that is faid to move the Paffions of the Auditory in Courts of Judicature, or in the Parliament-Houfe : They think themfelves affronted when fuch Methods are used in Speaking, as if the Orator could fuppofe within himfelf, that they were to be catched by fuch Baits. And therefore, when Men have spoken to the Point, in as few Words as the Matter will bear, it is expected they flould hold their Tongues. Even in the Pulpit, the Pomp of Rhetoric is not always commended, efpecially here in England; and very few meet with Applaufe, who do not confine themfelves to fpeak with the Severity of a Philofopher, as well as with the Splendour of an Orator ; two Things, not always confiftent. What a Difference in the Way of Thinking must this needs create in the World ? Anciently, Orators made their Employment the Work of their whole Lives; and as fuch, they followed it: All their Studies, even in other Things, were, by a fort of Alchemy, turned into Eloquence. The Labour which they thought requifite, is evident to any Man that

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that reads Quintilian's Institutions, and the Rhetorical Tracts of Cicero. This exceedingly takes off the Wonder : Eloquence may lie in common for Ancients and Moderns ; yet those only shall be most Excellent that cultivate it most, and give it the greatest Encouragement, who live in an Age that is accustomed to, and will bear nothing but Masculine, unaffected Sence; which likewise must be cloathed with the most splendid Ornaments of Rhey toric.

Sir William Temple will certainly agree with me in this Conclusion, That former Ages produced greater Orators, and nobler Poets, than these later ones have done; though perhaps he may difagree with me about the Way by which I came to my Conclusion; fince hence it will follow, that the present Age, with the fame Advantages, under the fame Circumstances, might produce a Demosthenes, a Cicero, a Horace, or a Virgil; which, for any thing hitherto faid to the contrary, feems to be very probable.

But, though the Art of Speaking, affifted by all thefe Advantages, feems to have been at a greater height amongst the *Greeks* and *Romans*, than it is at prefent; yet it will not follow from thence, that every Thing which is capable of Rheto-D 4 rical

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rical Ornaments, fhould, for that fole Reafon, be more perfect anciently than now; especially if these be only Secondary Beauties, without which, that Discourse wherein they are found may be justly valuable, and that in a very high Degree. So that, though, for the purpose, one should allow the Ancient Hiftorians to be better Orators than the Modern ; yet these last may, for all that, be much better, at least, equally good Hiftorians; those among them especially, who have taken fitting Care to pleafe the Ears, as well as inftruct the Understandings of their Readers. Of all the Ancient Historians before Polybius, none feems to have had a right Notion of writing Hiftory, except Thucydides : And therefore Polybius, whofe first Aim was, to instruct his Reader, by leading him into every Place whither the Thread of his Narrative carried him, makes frequent Excufes for those Digressions, which were but just necessary to beget a thorough Understanding of the Matter of Fact of which he was then giving an Account. These Excufes flew that he took a new Method : and they answer an Objection, which might otherwife have been raifed from the fmall Numbers of extant Histories that were written before his Time ; as if we could make no Judgment of those that are

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are loft, from those that are preferved. For, the Generality of those who wrote before him, made Rhetoric their chief Aim; and therefore all Niceties of Time, and Place, and Person, that might hurt the Flowingness of their Stile, were omitted; instead whereof, the Great Men of their Drama's, were introduced, making long Speeches; and such a Gloss was put apon every Thing that was told, as made it appear extraordinary; and whatsoever was wonderful and prodigious, was mentioned with a particular Emphasis.

This Cenfure will not appear unjust to any Man who has read Ancient Hiftorians with ordinary Care ; Polybius especially : Who, first of all the Ancient Historians, fixes the Time of every great Action that he mentions: Who affigns fuch Reafons for all Events, as feem, even at this diftance, neither too great, nor too little : Who, in Military Matters, takes Care, not only to fhew his own Skill, but to make his Reader a Judge, as well as himfelf : Who, in Civil Affairs, makes his Judgment of the Conduct of every People from the feveral Constitutions of their respective Governments, or from the Characters and Circumstances of the Actors themselves : And laft of all, Who fcrupuloufly avoids faying any Thing that might appear in-,boobai credible

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credible to Posterity; but represents Things in such a manner, as a wife Man may believe they were transacted : And yet he has neglected all that Artful Eloquence which was before so much in fashion.

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If these therefore be the chiefest Perfections of a just History, and if they can only be the Effects of a great Genius, and great Study, or both; at least, not of the last, without the first, we are next to enquire whether any of the Moderns have been able to attain to them : And then, if several may be found, which in none of these Excellencies seem to yield to the noblest of all the Ancient Historians, it will not be difficult to give an Answer to Sir William Temple's Question; (e)Pag.57. Whether (e) D'Avila's and Strada's Histories be beyond those of Herodotus and Livy?

I shall name but two; The Memoirs of Philip Comines, and F. Paul's History of the Council of Trent.

Philip Comines ought here to be mention'd, for many Reafons : For, belides that he particularly excells in those very Vertues which are fo remarkable in Polybius, to whom Lipsius makes no feruple to compare him, he had nothing to help him but Strength of Genius, allisted by Observation and Experience : He owns himself, that he had no Learning ; and indeed,

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indeed, the thing it felf is evident to any Man that reads his Writings. He flourished in a barbarous Age, and died just as Learning had croffed the Alpes, to get into France : So that he could not, by Conversation with Scholars, have those Defects which Learning cures, fupplied. This is what cannot be faid of the Thucydides's, Polybius's, Sallusts, Livies, and Tacitus's of Antiquity. Yet, with all these Difadvantages, (to which this great one ought alfo to be added, That by the Monkish Books then in vogue, he might fooner be led out of the Way, than if he had none at all to perufe,) his Stile is Masculine and fignificant; though diffuse, yet not tedious; even his Repetitions, which are not overfrequent, are diverting : His Digreffions are wife, proper, and inftructing : One fees a profound Knowledge of Mankind in every Obfervation that he makes; and that without Ill Nature, Pride, or Paffion. Not to mention that peculiar Air of Impartiality, which runs through the whole Work; fo that it is not easie to withdraw our Affent from every thing which he fays. To all which I need not add, that his Hiftory never tires, though immediately read after Livy or Tacitus. in which Oratory can only claim a Share

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In F. Paul's Hiftory one may also find the Excellencies before observed in Polybius; and it has been nicely examined by dexterous and skilful Adverfaries, who have taken the Pains to weigh every Period, and rectifie every Date. So that, befides the Satisfaction which any other admirable Hiftory would have afforded us, we have the Pleafure of thinking that we may fafely rely upon his Accounts of Things, without being mif-guided in any one leading Particular of great moment, fince Adverfaries, who had no Inclination to fpare him, could not invalidate the Authority of a Book which they had fo great a defire to leffen. I should have taken notice of no Modern Hiftorians befides D'Avila and Strada, if there were as much Reafon to believe their Narratives, as there is to commend their Skill in Writing. D'Avila must be acknowledged to be a most Entertaining Historian; one that wants neither Art, Genius, nor Eloquence, to render his Hiftory acceptable. Strada imitates the old Romans to happily, that those who can relish their Eloquence, will be always pleafed with his.

Upon the whole Matter, one may politively fay, That where any Thing in which Oratory can only claim a Share, has

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has been equally cultivated by the Moderns, as by the Ancients; they have equalled them at leaft, if not out-done them, fetting afide any particular Graces, which might as well be owing to the Languages in which they wrote, as to the Writers themfelves.

CHAP. IV.

Forlane of the Members of the French

Reflections upon Monsieur Perrault's Hypothesis, That Modern Orators and Poets are more Excellent than Ancient.

Whatever becomes of the Reafons given in the laft Chapter, for the Excellency of Ancient Eloquence and Poetry, the Polition it felf is to generally held, that I do not fear any Oppolition here at home. It is almost an Herefie in Wit, among our Poets, to fet up any Modern Name against *Homer* or *Virgil*, *Horace* or *Terence*. So that though here and there one should in Discourse preferr the Writers of the present Age, yet fearce any Man among us, who sets a Value upon his own Reputation, will venture

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to affert it in Print. Whether this is to be attributed to their Judgment or Modefty, or both, I will not determine; though I am apt to believe, to both, becaufe in our Neighbour-Nation, (fome of whofe Writers are remarkable for a good deal of what Sir William Temple calls Sufficiency,) fome late Authors have fpoken much more openly.

For one of the Members of the French Academy, which, fince the Cardinal de Richelieu's time, has taken fo much Pains to make the French Language capable of all those Beauties which are fo confpicuous in Ancient Authors, will not allow me to go fo far as I have done. Monfieur Perrault, the famous Advocate of Modern Orators and Poets, in Oratory fets the Bishop of Meaux against Pericles, (or rather, Thucydides,) the Bishop of Nismes against Isocrates, F. Bourdaloue against Lystas, Monsieur Voiture against Pliny, and Monsieur Balzac against Cicero. In Poetry likewife he fets Monfieur Boileau against Horace, Monsieur Corneille and Monsieur Moliere against the Ancient Dramatic Poets. In fhort, though he owns that fome amongst the Ancients had very exalted Genius's, fo that it may, perhaps, be very hard to find any Thing that comes near the Force of fome of the Ancient

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Ancient Pieces, in either kind, amongst our Modern Writers ; yet he affirms, that Poetry and Oratory are now at a greater height than ever they were, because there have been many Rules found out fince Virgil's and Horace's Time; and the old Rules likewife have been more carefully fcanned than ever they were before. This Hypothesis ought a little to be enguired into, and therefore I shall offer fome few Confiderations about this Notion. Sir William Temple, I am fure, will not think this a Digression; because the Author of the Plurality of Worlds, (f) by cenfuring of the Old Poetry, and (f)Pag.5. giving Preference to the New, raifed his Indignation; which no Quality among Men was fo apt to raife in him as Sufficiency, the worst Composition out of the Pride and Ignorance of Mankind.

(1.) Monfieur Perrault takes it for granted, that Cicero was a better Orator than Demosthenes; because, living after him, the World had gone on for above Two Hundred Years, constantly improving, and adding new Observations, necessary to compleat his Art: And so by Consequence, that the Gentlemen of the Academy must out-doe Tully, for the same Reasons. This Proposition, which is the Foundation of a great part of his Book, is

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is not very easie to be proved; because Mankind loves Variety in those Things wherein it may be had fo much, that the best Things, constantly re-iterated, will certainly difgust. Sometimes the Age will not bear Subjects, upon which an Orator may difplay his full Force ; he may often be obliged to little, mean Exercifes. A Thousand Accidents, not discoverable at a distance, may force Men to stretch their Inventions to fpoil that Eloquence, which left to it felf, would do admirable Things. And that there is fuch a Thing as a Decay of Eloquence in After-Ages, which have the Performances of those that went before constantly to recurr to, and which may be supposed to pretend to Skill and Finenefs, is evident from the Writings of Seneca, and the Younger Pliny, compared with Tully's; And from a Discourse written in Tacitus's Time, upon this very Subject, wherein the Author, taking it for granted that the Roman Eloquence was funk, enquires, with a World of Wit and Spirit, into the Reasons of its Decay. One great Instance which Monsieur Perrault alledges of his fupposed want of Art in the Ancients, is want of Method in fetting down their Thoughts, even when one would think they should have taken the greatest Care. This Accusation is, in my

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my Opinion, very groundlefs. Let Tully's Pleadings and Quinctilian's Institutions be examined, and then let the Controversie be decided by that Examination. And if Panegyricks and Funeral-Orations do not feem fo regular, it is not becaufe Method was little understood, but becaufe in those Discourses it was not fo neceffary. Where Men were to reason feverely, Method was ftrictly observed : And the Vertues difcourfed upon in Tully's Offices are as judiciously and clearly digested under their proper Heads, as the Subject-Matter of most Discourses written by any Modern Author, upon any Subject whatfoever. It does not feem poffible to contrive any Poem, whole Parts can have a truer, or more artful Connexion, than Virgil's Æneis : And though it is now objected by Monfieur Perrault, as a Fault, that he did not carry on his Poem to the Marriage of Æneas and Lavinia, yet we may reafonably think, that he had very good Reasons for doing fo; because in Augustus's Court, where those fort of Things were very well underftood, it was received with as great Veneration as it has been fince ; and never needed the Recommendation of Antiquity, to add to its Authority. But we need not recurr to an Excuse, or to any thing that may look like one, in this E

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this Matter: It is a Fault in Heroic Poetry, to fetch Things from their first Originals: And to carry the Thread of the Narrative down to the last Event, is altogether as dull. As Homer begins not with the Rape of Helen, fo he does not go fo far as the Destruction of Troy. Men should rife from Table with fome Appetite remaining : And a Poem should leave fome View of fomething to follow, and not quite that the Scenes; especially if the remaining part of the Story be not capable of much Ornament, nor will admit of Variety. The Paffion of Love, with those that always follow upon its being disappointed, had been shewn already in the Story of Dido. But Monfieur Perrault feems to have had his Head poffeffed with the Idea of French Romances; which, to be fure, must never fail to end in a general Wedding.

(2.) Another of Monfieur Perrault's Arguments, to prove that the Ancients did not perfect their Oratory and Poefie, is this; That the Mind of Man, being an inexhauftible Fund of new Thoughts and Projects, every Age added Obfervations of its own to the former Store; fo that they ftill encreafed in Politenefs, and by confequence, their Eloquence of all forts, in Verfe or Profe, mult needs have been more

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more exact. And as a Proof of this Affertion, he inftances in Matters of Love ; wherein the Writings of the best bred Gentlemen of all Antiquity, for want of Modern Gallantry, of which they had no Notion, were rude and unpolish'd, if compared with the Poems and Romances of the prefent Age. Here Monfieur Perrault's Skill in Architecture feems to have deceiv'd him : For there is a wide Difference between an Art that, having no Antecedent Foundation in Nature, owes its first Original to fome particular Invention, and all its future Improvements to Superftructures raifed by other Men upon that first Ground-work; and between fuch Operations of the Mind, as are Congenial with our Natures; where Convertation will polifh them, even without previous Intentions of doing fo; and where the Experience of a few Ages, if affifted by Books that may preferve particular Cafes, will carry them to as great an Height as the Things themselves are capable of. And therefore, he that now examines the Writings of the Ancient Moral Philofophers, Aristotle for instance, or the Stoics, will find, that they made as nice Diftinctions in all Matters relating to Vertue and Vice; and that they understood Humane Nature, with all its Paffions and Appe-E 2

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Appetites, as accurately as any Philofophers have done fince. Befides, it may be justly question'd, whether what Monfieur Perrault calls Politeneß, be not very often rather a vicious Aberration from. and Straining of Nature, than an Improvement of the Manners of the Age : If fo, it may reafonably be fuppofed, that those that medled not with the Niceties of Ceremony and Breeding, before unpractifed, rather contemned them as improper or unnatural, than omitted them through Ignorance occasioned by the Roughness of the Manners of the Ages in which they lived. Ovid and Tibullus knew what Love was, in its tendereft Motions; they defcribe its Anxieties and Difappointments in a manner that raifes too too many Paffions, even in unconcerned Hearts; they omit no probable Arts of Courtship and Address; and keeping the Mark they aim at still in view, they rather chufe to flew their Paffion. than their Wit: And therefore they are not fo formal as the Heroes in Pharamond or Caffandra; who, by pretending to Exactness in all their Methods, commit (g) The greater Improbabilities than Amadis de Gaule himfelf. In fhort, (g) D'Urfe, and (b) Cal-(b) The prenede, and the reft of the French Ro-Chopatra. mancers, by over-ftraining the String, have

Author of Astrea.

have broke it : And one can as foon believe that Varillas and Maimbourg wrote the Histories of great Actions just as they were done, as that Men ever made Love in fuch a way as these Love-and-Honour Men That Simplicity therefore of describe. the Ancients, which Monfieur Perrault undervalues, is fo far from being a Mark of Rudeness, and Want of Complaifance, that their Fault lay in being too Natural, in making too lively Descriptions of Things, where Men want no Foreign Affistance to help them to form their Idea's; and where Ignorance, could it be had, is more valuable than any, much more than a Critical Knowledge. But,

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By that loud Trumpet which our Courage aids,

We learn, that Sound, as well as Sense, persuades;

the Felicity of a manageable Language, when improv'd by Men of nice Ears, and true Judgments, is greater, and goes farther to make Men Orators and Poets, than Monfieur *Perrault* feems willing to allow; though there is a plain Reafon for his Unwillingnefs : The *French* Language wants Strength to temper and fup-E 3 port

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port its Smoothnels for the nobler Parts of Poefie, and perhaps of Oratory too, though the French Nation wants no Accomplifhments necessary to make a Poet, or an Orator. Therefore their late Critics are always fetting Rules, and telling Men what must be done, and what omitted, if they would be Poets. What they find they cannot do themselves, shall be to clogg'd where they may have the Management, that others shall be afraid to attempt it. They are too fond of their Language, to acknowledge where the Fault lies; and therefore the chief Thing. they tell us, is, that Sence, Connexion and Method are the principal Things to be minded. Accordingly, they have tranflated most of the Ancient Poets, even the Lyrics, into French Profe; and from those Translations they pass their Judgments, and call upon others to do fo too. So that when (to use Sir 7. Denham's Comparison) by pouring the Spirits of the Ancient Poetry from one Bottle into another, they have loft the most Volatile Parts, and the reft lofes all its relifh; thefe Critics exclaim against the Ancients, as if they did not fufficiently underftand Poetical Chymistry. This is fo great a Truth, that even in Oratory it holds, though in a lefs degree. Thucydides therefore has STRAT. With the state . hard

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hard Meafure, to be compar'd with the Bishop of Meaux, when his Orations are turned into another Language, whilft Monsieur de Meaux's stands unaltered ; for, though Sence is Sence in every Tongue, yet all Languages have a peculiar Way of expressing the fame Things; which is loft in Translations, and much more in Monfieur D'Ablancourt's, who professed to mind two very different Things at once; to Translate his Author, and to Write elegant Books in his own Language; which last he has certainly done; and he knew that more Perfons could find fault with his Stile, if it had been faulty, than find out Mistakes in his Rendring of Thucydides's Greek. Belides, the Beauty of an Author's Composition, is, in all Translations, entirely loft; about which the Ancients were superstitiously exact, (i) and in their (i) Vid. elegant Profe, as much almost as in their Inflit.Orar. Verfe. So that a Man can have but half lib.ix. c.4. an Idea of the ancient Eloquence, and that de Componot always faithful, who judges of it without fuch a Skill in Greek and Latin as can enable him to read Hiftories, Orations and Poems in those Languages, with Ease and Pleafure; Especially if he is not fo well acquainted with the Hiftory, Learning and Cuftoms of the Ages in which the great Men of Antiquity wrote, as to be E 4

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be able to difcern the Force of the Allufions which they continually make, and which every Reader of their own Age eafily underftood, though their Beauty was foon loft, when once the Matters of Fact there tacitly referred to, were forgotten.

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But these are Qualifications which Monfieur Perrault extremely wants, who has neither Greek nor Latin enough to undertake to make a Parallel between Ancient and Modern Orators and Poets. A particular Enquiry into whofe Miftakes would lead me too far out of the way; and befides, the World would think me very vain, to attempt any thing of this kind, after what the Famous Monfieur Despreaux has done already in his Critical Reflections upon Longinus : For there he has given fo just a Vindication of those Great Men, whom he fo well knows how to imitate, that what loever I can fay after him, will appear flat and infipid. I shall therefore rather chufe to return to my Subject.

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Of Ancient and Modern Grammar.

GRammar is one of the Sciences which Sir William Temple fays, that (k) no (k)Man ever disputed with the Ancients.

As this Affertion is expressed, it is a little ambiguous : It may be understood of the Skill of the Moderns in the Grammatical Analogy of Latin and Greek, or of their Skill in the Grammar of their Mother-Tongues. Befides, Grammar may either be confidered Mechanically, or Philosophically. Those confider it Mechanically, who only examine the Idiotifms and Proprieties of every particular Language, and lay down Rules to teach them to others. Those confider it as Philosophers, who confider Language, with the Nature of Grammatical Analogy in general, and then carry down their Speculations to those particular Languages of which they are to difcourfe; who run over the feveral Steps, by which every Language has altered its Idiom ; who enquire into the feveral Perfections and Imperfections of those Tongues with which they are acquainted, and (if they are living Languages) propole

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propole Methods how to remedy them, or, at leaft, remove those Obscurities which are thereby occasioned in such Discourses where Truth is only regarded, and not Eloquence.

Now, this Mechanical Grammar of Greek and Latin has been very carefully studied by Modern Critics. Sanctius, Scioppius, and Gerhard Voffius, belides a great number of others, who have occasionally shewn their Skill in their Illustrations of Ancient Authors, have given evident Proofs how well they understood the Latin Tongue : So have Caninius, Clenard, Gerhard Vollius, and abundance more, in Greek : Wherein they have gone upon fure Grounds, fince, befides a great Number of Books in both Languages, upon other Subjects, abundance of Grammatical Treatifes, fuch as Scholia upon Difficult Authors, Gloffaries, Onomasticons, Etymologicons, Rudiments of Grammar, and the like, have been preferved, and published by skilful Men (most of them at least) with great Care and Accuracy. From all which there feems to be Reafon to believe, that fome Modern Critics may have underflood the Grammatical Construction of Latin, as well as Varro, or Cæfar ; and of Greek, as well as Aristarchus, or Herodian. But this cannot be pretended to be

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be a new Invention; for the Grammar of dead Languages can be only learned by Books: And fince their Analogy can neither be encreafed nor diminished, it must be left as we find it.

So that when Sir William Temple favs. That no Man ever disputed Grammar with the Ancients; if he means, that we cannot make a new Grammar of a dead Language, whofe Analogy has been determined almost MM Years, it is what can admit of no Difpute. But if he means, that Modern Languages have not been Grammatically examined, at leaft, not with that Care that fome Ancient Tongues have been ; that is a Proposition which may, perhaps, be very justly queftioned. And he, of all Men, ought not to have arraign'd the Modern Ignorance in Grammar, who puts Delphos for Delphi, every where in his Effays, tho' he knows that Proper Names borrow'd from Latin and Greek are always put in the Nominative-Cafe, in our Language. For those who find fault with others, ought to be critically exact in those Things at least themselves. But without making Perfonal Digreffions, in the first place, it ought to be confidered, that every Tongue has its own pepuliar Form, as well as its proper Words ; not communicable to, nor to be regulated it is a charger soul is i by

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by the Analogy of another Language : Wherefore, he is the best Grammarian, who is the perfecteft Master of the Analogy of the Language which he is about ; and gives the trueft Rules, by which another Man may learn it. Next, To apply this to our own Tongue, it may be certainly affirmed, That the Grammar of English is so far our own, that Skill in the Learned Languages is not neceffary to comprehend it. Ben. Johnson was the first Man, that I know of, that did any Thing confiderable in it : but he feems to have been too much possessed with the Analogy of Latin and Greek, to write a perfect Grammar of a Language whole Construction is fo vastly different; tho' he falls into a contrary Fault, when he treats of the English Syntax, where he generally appeals to Chaucer and Gower, who lived before our Tongue had met with any of that Polifhing, which, within thefe last CC Years, has made it appear almost entirely New. After him, came Dr. Wallis; who examined the English Tongue like a Grammarian and a Philosopher at once, and shewed great Skill in that Business : And of his English Grammar, one may venture to fay, That it may be fet against any Thing that is extant of the Ancients, of that kind : For, as Sir William Temple lays

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fays upon another Occasion, there is a Strain of Philosophy, and curious Thought, in his previous Effay of the Formation of the Sounds of Letters ; and of Subtilty, in his Grammar, in the reducing of our Language under Genuine Rules of Art, that one would not expect in a Book of that kind.

The Care which the Modern Italians have taken to cultivate and refine their Language, is hardly to be believed by a People who have been fo careless of their own as the English have been, till within thefe laft XXX or XL Years. Volumes have been written against fome Letters, and in favour of others (l). Cardinal $\binom{l}{l}$ and Z. Bembo drew up fuch large and exact Rules for the Italian, that one would have imagined they could not have received any Additions; and yet Castelvetro made an Enlargement which was bigger than the Cardinal's Original Work, to which Salviati thought it necessary to add an Appendix (m). The Academy della Crusca (m) Vid. have been above these c Years fifting li Pensieri diversi di their Language ; and with how great Ac- Taffoni, I.x. curacy and Pains they have examined it, c. 2. their Vocabulary, which has had feveral Impressions, with vast Augmentations, from what it was at first, is a convincing Proof. not so and some with the o'd

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In France, fince the Institution of the French Academy, the Grammar of their own Language has been studied with great Care. Ifocrates himfelf could not be more nice in the Numbers of his Periods, than these Academicians have been in fetling the Phrafeology, in fixing the Standard of Words, and in making their Sentences, as well as they could, numerous and flowing. Their Dictionary, which is come out at last ; Vaugelas's, Boubours's and Menage's Remarks upon the French Tongue, Richelet's and Furctiere's Dictionaries, with abundance of other Books of that kind, which, though not all written by Members of the Academy, yet are all Imitations of the Patterns which they first fet, are Evidences of this their Care. This Sir William fomewhere owns : And though he there fuppofes, that these Filers and Polishers may have taken away a great part of the Strength of the Tongue, (which, in the main, is true enough,) yet that is no Objection against their Critical Skill in Grammar; upon which Account only their Labours are here taken notice of. So much for the Mechanical Part of Grammar.

> Philosophical Grammar was never, that we know of, much minded by the Ancients. So that any great Performances of

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of this fort, are to be looked upon as Modern Additions to the Commonwealth of Learning. The most considerable Book of that kind, that I know of, is Bishop Wilkin's Essay towards a Real Character, and Philosophical Language : A Work, which those who have studied, think they can never commend enough. To this one ought to add, what may be found relating to the same Subject, in the Third Book of Mr. Lock's Essay of Humane Understanding.

CHAP. VI.

the Medents

Of Ancient and Modern ArchiteSture, Statuary, and Painting.

H Itherto the Moderns feem to have had very little Reafon to boaft of their Acquifitions and Improvements; Let us fee now what they may have hereafter. In those Arts, fure, if in any, they may challenge the Preference, which depending upon great Numbers of Experiments and Observations, that do not every Day occurr, cannot be supposed to be brought to Perfection in a few Ages. Among

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Among fuch, doubtlefs, Architecture, Sculpture and Painting may and ought here to be reckoned ; both becaufe they were extremely valued by the Ancients, and do ftill keep up their just Price. They are likewife very properly taken notice of in this Place, because they have always been the Entertainments of Ingenious and Learned Men, whofe Circumstances would give them Opportunity to lay out Money upon them, or to pleafe themfelves with other Men's Labours. In these Things, if we may take Men's Judgments in their own Professions, the Ancients have far out-done the Moderns. The Italians. whofe Performances have been the moft confiderable in this kind, and who, as Genuine Succeffors of the Old Romans, are not apt to undervalue what they do themfelves, have, for the most part, given the uncontested Pre-eminence to the Ancient Greek Architects, Painters and Sculptors. Whole Authority we ought the rather to acquiesce in, because Michael-Angelo and Bernini, two wonderful Mafters, and not a little jealous of their Honour, did always ingenuoufly declare, that their best Pieces were exceeded by fome of the ancient Statues still to be feen at Rome.

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Here therefore I at first intended to have 245. 88. left off; and I thought my felf obliged to refign what I believed could not be maintained, when Monfieur Perrault's Parallel of the Ancients and Moderns came to my Hands. His Skill in Architecture and Mechanicks, may, in all probability, be relied upon; fince the French King, who is not over-apt to conferr Employments upon Men that do not understand how to manage them, has made him (n) Chief Sur- (n) Preweyor of his Buildings. And his long Con- mier Comversation with the finest Pieces of Anti- Surintenquity, and of these Later Ages, which his dance des Employment necessarily led him to, fitted de Frances him for judging of these Matters better than other Men. So that, though there might be great Reason not to agree to his Hypothesis of the State of Ancient and Modern Eloquence and Poefie; yet in Things of this Nature, where the Mediums of Judging are quite different, and where Geometrical Rules of Proportion, which in their own Nature are unalterable, go very far to determine the Question, his Judgment feemed to be of great weight. I fhall therefore chule rather to give a fhort View of what he fays upon these Subjects, than to pais any Centure upon them of my own and live doidy colu the feare of real Ulefulneis; whereas the

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Of Architecture, he fays; ' That though Pag. 88. ' the Moderns have received the Knowledge of the Five Orders from the Ancients, yet if they employ it to better ' Purpofes, if their Buildings be more useful, and more beautiful, then they must be allowed to be the better Archi-' tects : For it is in Architecture, as it is ' in Oratory ; as he that lays down Rules, " when and how to use Metaphors, Hy-# J P. 26 ' perbole's, Apostrophe's, or any other Fimier Com gures of Rhetoric, may very often not mis de la 'be fo good an Orator as he that uses ' them judicioufly in his Difcourfes : So Battmens ' he that teaches what a Pillar, an Archide France trave or a Cornice is, and that instructs another in the Rules of Proportion, fo as to adjust all the Parts of each of the feveral Orders aright, may not be fo good an Architect as he that builds a ' magnificent Temple, or a noble Palace, * that shall answer all those Ends for which fuch Structures are defigned. That the ' chief Reafon why the Doric, the Ionic, or the " Corinthian Models have pleafed fo much, ' is, partly because the Eye has been long ' accuftomed to them, and partly becaufe ' they have been made use of by Men ' who underflood and followed those other ' Rules which will eternally pleafe, upon the fcore of real Usefulness; whereas the ' Five

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Five Orders owe their Authority to Cultom, rather than to Nature. That ' these Universal Rules are ; To make those Pag. 950 Buildings which will bear it, lofty and wide : In Stone work, to use the largest, ' the imootheft, and the eveneft Stones : 'To make the Joints almost imperceptible : 'To place the Perpendicular Parts of the Work exactly Perpendicular, and the ' Horizontal Parts exactly Horizontal : To fupport the weak Parts of the Work by thestrong : to cut Square Figures perfect-'ly Square, and Round Figures perfectly ' Rounds To hew the whole exactly true ; and to fix all the Corners of the Work ' evenly, as they ought to be. That these "Rules, well obferv'd, will always pleafe even those who never understood one Fag. 114. fingle Term of Art : Whereas the other accidental Beauties, fuch as he supposes Doric, Ionic, or Corinthian Work to be, please, only because they are found together with thefe, though their being ' the most conspicuous Parts of a Building, made them be first observ'd : From whence Men began to fanfie Inherent ' Beauties in that, which owes the greatest ' part of its Charms to the good Company in which it is taken notice of, and fo in THE. ILS. ' time delighted, when it was feen alone. That otherwife it would be impossible Pag. 97,99 0) 3 ' that F

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(o) Bandeaux de worte du Temple. Pag. LIT. Pug. 113.

Reflections upon minh

' that there should be fo great a Variety in ' the Affigning of the Proportions of the

' tects ever keeping to the fame Measure, though they have neither spoiled nor leffened the Beauty of their Works. That

feveral Orders; no two eminent Archi-

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(o) Ban. deaux de la c voute du Temple. Pag. III. Pag. 113.

Pag. 114.

Pag. 115.

if we go to Particulars, we shall not find (for the purpose) in the Pantheon at Rome, which is the moft regular, and the moft magnificent ancient Building now extant, two Pillars of a like thickness. That () the Girders of the arched Roof do not lie full upon the great Columns or Pilasters ; but some quite over the Cavities of the Windows which are underneath o others half over the Windows, and half upon the Co-'lumns or Pilasters. That the Modillons of the Cornice are not exactly over the Middle of the Chapiters of the Pillars. That in the Fronts of the Piazza's, the Number of the Modillons in Sides of equal length is not alike : With feveral Inflances of Negligence, which would now be thought unpardonable. That, gene-'rally fpeaking, in other Buildings, their Floors were twice as thick as their Walls; which loaded them exceedingly, to no purpose. That their Way of Laying Stones in Lozenges, was inconvenient, as well as troublefome; fince every Stone · fo ISTIT .

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Stone 10 fo placed, was a Wedge to force those a funder on which it leaned. That they Pag. 117, did not understand the nicest Thing in ' Architecture, which is, the Art of Cutting Stones in fuch a manner, as that ' feveral Pieces might be jointed one into 'another; for want of which, they made ' their Vaults of Brick plaifter'd over ; ' and their Architraves of Wood, or of ' one fingle Stone; which obliged them to fet their Pillars clofer to one ano-' ther than otherwife had been necessary : "Whereas, by this Art of Cutting Stone, ' Archeshave been made almost flat; Stair-· Cafes of a vaft height have been raifed, ' where the Spectator is at a loss to tell what supports them; whilft the Stones ' are jointed into each other in fuch a manf ner, that they mutually bear up them-' felves, without any Reft but the Wall, 'into which the innermost Stones are ' fastened. That they had not Engines to Pag. 118, raife their Stones to any confiderable ' height; but if the Work was low, they carried them upon their Shoulders; if ' high, they raifed floping Mounts of " Earth level with their Work, by which they rolled up their Stones to what 'height they pleafed : For, as for the ' Engines for Railing of Stones, in Vitruvius, those who understand Mechanics, F 3 are

. Reflections upon some

' are agreed, that they can never be very fer-'viceable. That it is not the Largenels of a ' Building, but the well executing of a Noble ' Defign, which commends an Architect ; ' otherwife the Ægyptian Pyramids, as they ' are the greateft, would alfo be the fineft ' ftructures in the World. And laft of all ; ' That the French King's Palace at Verfailles, ' and the Frontifpiece of the Louvre, difco-' ver more true Skill in Architecture of all ' forts, than any thing which the Ancients ' ever performed, if we may judge of what ' is loft, by what remains.'

What Monsieur Perrault fays of the Ancients Way of Raifing their Stone, may be confirmed by the Accounts which Garçilasso de la Vega, and others, give of the vaft Buildings of maffy Stone which the Spaniards found in Peru, upon their first Arrival. It is most certain, that the Peruvians knew not the Use of Iron; and by confequence, could make no Engines very ferviceable for fuch a purpofe. They ground their Stones one against another, to fmooth them; and afterwards they raifed them with Leavers : And thus, with Multitude of Hands they reared fuch Structures as appeared wonderful even to Men acquainted with Modern Ar-Engines for Raifing of Stone, studyatida

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Of Sculpture, he fays; 'That we are ' to diftinguish between entire Statues, ' and Baffo Relievo's; and in entire Statues, between Naked and Cloathed Pieces. ' The Naked Images of the Ancients, as 'Hercules, Apollo, Diana, the Gladiators, " the Wrestlers, Bacchus, Laocoon, and some ' few more, are truly admirable : They fhew fomething extremely Noble, which Pag. 125. ' one wants Words for, that is not to be found in Modern Work : Though he ' cannot tell whether Age does not contribute to the Beauty. That if some of the most excellent of the Modern Pieces ' should be preferved MD or MM Years; ' or ting'd with fome Chymical Water, ' that could in a fhort time make them ' appear Antique, it is probable they would 'be viewed with the fame Veneration 'which is now payed to Ancient Statues. ' That the Naked Sculpture of fingle Pag. 129. ' Figures is a very noble Art indeed, but ' the fimpleft of any that has ever charmed ' Mankind ; not being burthen'd with a 'Multiplicity of Rules, nor needing the F22. 'Knowledge of any other Art to compleat it; fince a Man that has a Genius and Application, wants only a beautiful ' Model in a proper Posture, which he is 'faithfully to copy : And therefore, That . in the Cloathed Statues of the Ancients, Pag. 121, the 122, 123. 4

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the Drapery wants much of that Art which is differnible in fome Modern Pieces; they could never make the ' Cloaths fit loofe to the Bodies, nor ma-' nage the Folds fo as to appear easie and ' flowing, like well-made Garments upon ' living Bodies. That the Baffo Relievo's ' of the Ancients plainly flew, that the Statuaries in those Days did not underfland all the Precepts that are necessary 'to compleat their Art; because they " never observed the Rules of Perspective, they did not lessen their Figures gradual-' ly, to make them fuitable to the Place ' where they flood, but fet them almost 'all upon the fame Line; fo that those ' behind were as large, and as diffin-^s guishable, as those before; as if they had been purposely mounted upon Steps, to ' be feen over one another's Heads. That Pag. 130. ' this is visible in the Columna Trajana, at ' this Day, though that is the nobleft ancient Performance in Baffo Relievo still ' remaining ; wherein, together with fome 'very beautiful Airs of fome of the Heads, ' and fome very happy Poftures, one may ' difcern that there is fcarce any Art in the Composition of the whole, no gradual leffening of the Relievo in any part, with great Ignorance in Perspective in the whole. That the ancient Works in · Baffo

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His in Ballo Baffo Relievo did not truly deferve that Pag. 133.
Name, being properly entire Statues, either fawed down perpendicularly, from
Head to Foot, with the fore-part faften'd
or glued to a flat Ground, or funk half
way in: Whereas the true Art con-Pag. 134.
fifts in raifing the Figures fo from their
Ground, which is of the fame Piece,
that with two or three Inches of Re-*lievo*, they may appear like diffinct
Images funk into the Ground, fome
more, fome lefs, according to the feveral
Diffances in which they ought to be
placed.

Of Painting, he fays ; ' That Three Pag. 143. ' Things are necessary to make a perfect ' Picture ; To represent the Figures truly ; ' To express the Passions naturally; and, To ' put the whole judiciously together. For the First, It is necessary that all the "Out-Lines be justly Drawn, and that ' every Part be properly Coloured. For ' the Second, It is neceffary that the Painter Pag. Lag. ' fhould hit the different Airs and Cha-' racters of the Face, with all the Poftures ' of the Figures, fo as to express what they do, and what they think. The whole is judiciously put together, when 861 1369 every feveral Figure is fet in the Place ' in which we fee it, for a particular Purpole; and the Colouring gradually weakened,

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' weakened, fo as to fuit that part of the 'Plain in which every Figure appears. 'All which is as applicable to the feveral 'Parts of a Picture that has but one Figure, as to the feveral Figures in a Picture that has more. That if we ' judge of Ancient and Modern Paintings ' by this Rule, we may divide them into Three Classes: The First takes in the " Age of Zeuxis, Apelles, Timanthes, and the reft that are fo much admired in Antiquity. The Second takes in the Age of Raphaël, Titian, Paul Veronese, and ' those other great Masters that flourished ' in Italy in the last Age. The Third contains the Painters of our own Age, fuch as Pouffin, Le Brun, and the like. That if we may judge of the Worth of the Painters of the First Classe, by the Commendations which have been given them, we have Reafon to fay, either that their Admirers did not understand Painting well, or that themselves were not fo valuable, Pag. 136. 'or both. That whereas Zeuxis is faid to ' have painted a Bunch of Grapes fo naturally, that the Birds peck'd at them; Pag. 138. ' Cooks have, of late Years, reached at ' Partridges and Capons, painted in Kitchins; which has made By-standers smile, without raifing the Painter's Reputation to any great height. That the Contention between Weakene

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" between Protogenes and Apelles shewed Pag. 139. ' the Infancy of their Art : Apelles was ' wonderfully applauded for Drawing a ' very fine Stroke upon a Cloth : Proto-' genes drew a Second over that, in a dif-" ferent Colour; which Apelles fplit in-' to two, by a Third. Yet this was not Pag. 141 ' fo much as what Giotto did, who lived ' in the Beginning of the Reftoration of Painting in Italy, who drew, without ' Compasses, with a fingle Stroke of a 'Pencil, upon a Sheet of Paper, an O, ' fo exquisitely round, that it is still Pro-'verbial among the Italians, when they "would defcribe a Man that is egregioufly ' stupid, to fay, That he is as round as " the O of Giotto. That when Pouffin's Pag. 142; ' Hand shook fo much, that he could scarce ' manage his Pencil, he painted fome Pieces ' of ineftimable Value; and yet very in-' different Painters would have divided ' every Line that he drew, into nine or ' ten Parts. That the Chineses, who can-' not yet express Life and Paffion in their ' Pieces, will draw the Hairs of the Face and ' Beard fo fine, that one may part them ' with the Eye from one another, and tell ' them. Though the Ancients went much Pag. 150 beyond all this; for the Remains of the ' Ancient Painting difcover great Skill in Defigning, great Judgment in Ordering of W TEFSIS

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Rapid States

' of the Poltures, much Nobleness and Ma-REE REP ' jefty in the Airs of the Heads ; but little Defign, at the fame time, in the Mixing of their Colours, and none at all in the Perspective, or the Placing of the Figures. That their Colouring is all equalin fly flrong; nothing comes forward, no-' thing falls back in their Pictures ; the Figures are almost all upon a Line : So that ' their Paintings appear like Pieces in Baffo. Relievo, coloured; all dry and unmoveable, without Union, without Connexion, and ' that living Softness which diftinguishes ' Pictures from Statues in Marble or Cop-' per. Wherefore, fince the Paintings of ' these Ancient Masters were justly defign'd, and the Paffions of every feveral Figure ' naturally expressed, which are the Things ' that the generality of Judges most ad-' mire, who cannot difcern those Beauties ' that refult from a judicious Composition of the whole, fo well as they can the ' diftinct Beauties of the feveral Parts, there is no wonder that Zeuxis and Apelles, and the other Ancient Masters, were to famous, and to well rewarded. ' For, of the Three Things at first assigned, as necessary to a Perfect Painter, true Drawing, with proper Colouring, affect the Senfes; natural Expressing of the Motions of the Soul, move the Paffions ; ' whereas

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whereas a Judicious Composition of the Pag. 146. whole, which is difcernible in an Artful Distribution of Lights and Shades, in the gradual Leffening of Figures, according to their respective Places, in making every Figure answer to that particular Purpose which it is intended to reprefent, affects the Understanding only; and fo, inftead of Charming, will rather difgust an unskilful Spectator. Such a Pag. 147. Man, and under this Head almost all Mankind may be comprehended, will contentedly forgive the groffeft Faults in Perspective, if the Figures are but very prominent, and the View not darkened by too much Shade ; which, in their Opinion, fpoils all Faces, refpecially of Friends, whole Images chiefly fuch Men are definous to fee. Isadaal or reilused When he compares the Paintings of Raphael and Le Brun together, he obterves, That Raphael feems to have had the Pag. 159. greater Genius of the two; that there is Tomething to Noble in his Poftures, and the Airs of his Heads; fomething to just in his Deligns, to perfect in the Mixture of his Colours, that his St. Michael will always be thought the first Picture in the World, unless his H. Family thould

bedays, That if we confider the Perfons Pag. 160, of

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of Raphaël and Le Brun, Raphaël perhaps ' may be the greater Man : But if we con-' fider the Art, as a Collection of Rules, ' all neceffary to be observed to make it ' perfect, it appears much more compleat in Monsieur Le Brun's Pieces: For Raphaël understood fo little of the gradual Lessening of Light, and Weakening of ' Colours, which is caufed by the Interpolition of the Air, that the hindermost 'Figures in his Pieces appear almost as plain as the foremost ; and the Leaves of diftant Trees, almost as visible as of those near at hand; and the Windows of a Building four Leagues off, may all be ' counted as eafily as of one that is within twenty Paces. Nay, he cannot tell whether fome part of that Beauty, now fo peculiar to Raphaël's Pieces, may not, in a great measure, be owing to Time, ' which adds a real Beauty to good Paintings. For, in the Works of this kind, as ' in New-kill'd Meat, or New-gather'd Fruit, there is a Rawnels and Sharpnels, ' which Time alone concocts and fweetens, ' by mortifying that which has too much 'Life, by weakening that which is too ftrong, and by mixing the Extremities of every Colour entirely into one ano-Pag. 161. ther. So that no Man can tell what will be the Beauty of Le Brun's Family of

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^c of Darius, Alexander's Triumph, the De-^{feat} of Porus, and fome other Pieces of ^{equal Force,} when Time fhall have done ^{her} Work, and fhall have added thofe ^{Graces} which are now fo remarkable in ^{the} St. Michael, and the H. Family. One ^e may already obferve, that Monfieur ^{her} Le Brun's Pieces begin to foften; and ^{that} Time has, in part, added thofe ^{Graces} which It alone can give, by ^{fweetning} what was left on purpofe, ^{by} the judicious Painter, to amufe its ^{her} Activity, and to keep it from the Sub-^{ftance} of the Work.^a Thus far Monfieur Perrault.

Whether his Reafonings are juft, I dare not determine : Thus much may very probably be inferred, That in these Things also the World does not Decay to fast as Sir William Temple believes ; and that Pouffin, Le Brun and Bernini have made it evident by their Performances in Painting and Statuary, (p) That we have had (p) Pag. 52. Masters in both these Arts, who have deferved a Rank with those that flourished in. the last Age, after they were again restored to these Parts of the World. god on over of Men for their Truth ; they will admit of fixed and undifputed Mediums of Com-. A Ai Hrond Judgment : So that, though it may be always debated, who have been 3:13

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General Reflections relating to the following Chapters : With an Account of Sir William Temple's Hypothesis of the Hiftory of Learning.

Graces which It alone can give, b TF the bold Claims of confident and numerous Pretenders, might, becaufe of their Confidence and Numbers, be much relied on, it were an easie Thing to determine upon the remaining Parts of Learning, hereafter to be discoursed of. The generality of the Learned have given the Ancients the Preference in those Arts and Sciences which have hitherto been confidered : But for the Precedency in those Parts of Learning which still remain to be enquired into, the Moderns have put in their Claim, with great Brisknefs. Among this fort, I reckon Mathematical and Physical Sciences, confidered in their largest Extent. These are Things which have no Dependence upon the Opinions of Men for their Truth ; they will admit of fixed and undifputed Mediums of Comparison and Judgment : So that, though it may be always debated, who have been the

the beft Orators, or who the beft Poets ; yet it cannot always be a Matter of Controversie, who have been the greatest Geometers, Arithmeticians, Astronomers, Musicians, Anatomists, Chymists, Botanists, or the like ; because a fair Comparison between the Inventions, Observations, Experiments and Collections of the contending Parties, must certainly put an End to the Dispute, and give full Satisfaction to all Sides.

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The Thing contended for, is, the Knowledge of Nature; what the Appearances are which it exhibits, and how they are exhibited; thereby to fhew how they may be enlarged, and diversified, and Impediments of any fort removed. In order to this, it will be necessary, (1.) To find out all the feveral Affections and Properties of Quantity, abstractedly confidered; with the Proportions of its Parts and Kinds, either feverally confidered, or compared and compounded with one another; either as they may be in Motion, or at Reft: This is properly the Mathematician's Business. (2.) To collect great Numbers of Observations, and to make a vast Variety of Experiments upon all forts of Natural Bodies. And because this cannot be done without proper Tools, (3.) To contrive fuch Inftruments, by which the G Con-

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Constituent Parts of the Universe, and of all its Parts, even the most minute, or the most remote, may lie more open to our View; and their Motions, or other Affections, be better calculated and examined, than could otherwife have been done by our unaffisted Senfes. (4.) To range all the feveral Species of Natural Things under proper Heads; and affign fit Characterifticks, or Marks, whereby they may be readily found out, and diffinguished from one another. (5.) To adapt all the Catholick Affections of Matter and Motion to all the known Appearances of Things, fo as to be able to tell how Nature works ; and, in some particular Cafes, to command her. This will take in Aftronomy, Mechanics, Optics, Mulic, with the other Phylico - Mathematical and Phylico-Mechanical Parts of Knowledge ; as alfo, Anatomy, Chymistry, with the whole Extent of Natural History. It will help us to make a just Comparison between the Ancient and Modern Phylics ; that fo we may certainly determine who Philosophized best, Aristotle and Democritus, or M. Boyle and Mr. Newton.

In these Things therefore the Comparison is to be made, wherein one can go no higher than the Age of *Hippocrates*, *Aristotle* and *Theophrastus*; because the Writings

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Writings of the Philosophers before them are all loft. It may therefore be plaufibly objected, That this is no fair Way of Proceeding, because the Ægyptians and Chaldeans were Famous for many Parts of real Learning long before ; from whom Pythagoras, Thales, Plato, and all the other Græcian Philosophers, borrow'd what they knew. This Sir William Temple infifts at large upon; fo that it will be neceffary to examine the Claims of thefe Nations to Universal Learning : In doing of which, I shall follow Sir William Temple's Method; first I shall give a short Abfiract of his Hypothesis, and then enquire how far it may be relied on.

Sir William Temple tells us, That the chiefeft Argument that is produced in behalf of the Moderns, is; (q) ' That (q) Pag.5. ' they have the Advantage of the An-' cients Difcoveries to help their own : So ' that, like Dwarfs upon Giants Shoul-' ders, they must needs see farther than ' the Giants themselves.' To weaken this, we are told, (r) 'That those whom we (r) Pag. ' call Ancients, are Moderns, if compared to 6----10. ' those who are ancienter than they : And ' that there were vaft Lakes of Learning in * Ægypt, Chaldæa, India and China; where ' it flagnated for many Ages, till the Greeks ' brought Buckets, and drew it out.' The G 2

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The Question therefore which is first to be asked here, is, Where are the Books and Monuments wherein these Treasures were deposited for so many Ages ? And because they are not to be found, Sir William (s) Pag.8. Temple makes a doubt, (s) Whether Books advance any other Science, beyond the particular Records of Actions, or Registers of Time. He may refolve it foon, if he enquires how far a Man can go in Aftronomical Calculations, for which the Chaldæans are faid to be fo Famous, without the Use of Letters. The Peruvian Antiquities, which he there alledges, for Twelve or Thirteen Generations, from Mango Capac, to Atahualpa, were not of above D Years standing. The Mexican Accounts were not fo old ; and yet thefe, though very rude, needed Helps to be brought down to us. The Peruvian Conveyances of Knowledge, according to Garçilasso de la Vega, were not purely Traditionary, but were Fringes of Cotton, of feveral Colours, tied and woven with a vaft Variety of Knots, which had all determinate Meanings; and fo fupplied the Use of Letters, in a tolerable degree : And the Mexican Antiquities were preferved, after a fort, by Pictures; of which we have a Specimen in Purchas's Pilgrim. So that when Sir William Temple urges the

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the Traditions of these People, to prove that Knowledge may be conveyed to Pofterity without Letters, he proves only what is not disputed, namely, That Knowledge can be imperfectly conveyed to Pofterity without Letters; not that Tradition can preferve Learning as well as Books, or fomething equivalent.

But fince Sir William Temple lays no great Weight upon this Evafion, I ought not to infift any longer upon it. He lays therefore, (t) 'That it is a Question, (r) Pag. 6. ' whether the Invention of Printing has multiplied Books, or only the Copies of ' them; fince, if we believe that there were Six Hundred Thousand Books in the Ptolemæan Library, we shall hardly ' pretend to equal it by any of ours, nor ' perhaps by all put together; that is, we ' shall scarce be able to produce fo many ' Originals that have lived any Time, and ' thereby given Testimony of their having ' been thought worth preferving.' All this, as it is urged by Sir William Temple, is liable to great Exception. For, (1.) If we should allow that there is no Hyperbole in the Number of Books in the Ptolemæan Library, yet we are not to take our Effimate by the common Way of Reckoning. Every Oration of Demosthenes and Isocrates, every Play of Æschylus or Arilto-2

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Aristophanes, every Discourse of Plato or Aristotle, was anciently called a Volume. This will lesten the Number to us, who take whole Collections of every Author's Works in one Lump ; and accordingly give Names to them in our Catalogues, if printed together, under one Title. (2.) Sir William Temple feems to take it for granted, that all these Books were Originals ; that is to fay, Books worth preferving; which is more than any Man can now prove. I suppose he himself telieves that there were Ancients of all Sorts and Sizes, as well as there are Moderns now. And he that raises a Library, takes in Books of all Values; fince bad Books have their Uses to Learned Men, as well as good ones. So that, for any Thing we know to the contrary, there might have been in this Alexandrian Library a great Number of (u) Scribbles, (u) Ibid. that, like Mushrooms or Flies, are born and die in Small Circles of Time. (3.) The World can make a better Judgment of the Value of what is loft, at least, as far as it relates to the prefent Enquiry, than one at first View might perhaps imagine. The lost Books of the Antiquities of Several Nations, of their Civil History, of the Limits of their several Empires and Commonwealths, of their Superstitious Rites and Ce-· remonies,

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remonies, of their Laws and Manners, or of any Thing immediately relating to any of thefe, are not here to be confidered ; because it cannot be pretended that the Moderns could know any of these Things, but as they were taught. So neither is what may have related to Ethics, Politics, Poefie and Oratory here to be urged, fince in those Matters, the Worth of Ancient Knowledge has already been afferted. So that we are only to enquire what and how great the Lofs is of all those Books upon Natural or Mathematical Arguments, which were preferved in the Alexandrian, Afiatick and Roman Libraries, or mentioned in the Writings of the Ancient Philosophers and Historians. By which Deduction, the former Number will be yet again confiderably leffened.

Now, a very true Judgment of Ancient Skill in Natural Hiftory may be formed out of *Pliny*, whose Extracts of Books, ftill extant, are so particular for the prefent Purpose, that there is Reason to believe they were not careless made of those that are lost. *Galen* seems to have read whatever he could meet with relating to Medicine, in all its Parts: And the Opinions of Abundance of Authors, which are no where else preferved, may be discovered out of his Books; of the G_4 famous

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famous ones especially ; whom, at every turn, he either contradicts, or produces to fortifie his own Affertions. Ptolemee gives an Account of the Old Aftronomy, in his Almagest. Very many Particulars of the Inventions and Methods of Ancient Geometers are to be found in the Mathematical Collections of Pappus. The Opinions of the different Sects of Philosophers are well enough preferved in the entire Treatifes of the feveral Philosophers who were of their Sects ; or in the Difcourfes of others, who occasionally or expresly confute what they fay. So that I am apt to think, that the Philosophical and Mathematical Learning of the Ancients is better conveyed us than the Civil; the Books which treated of those Subjects fuiting better the Genius of feveral Men, and of feveral Nations too : For which Reafon the Arabs translated the most confiderable Greek Books of this kind ; as, Euclid, Apollonius, Aristotle, Epictetus, Cebes, and Abundance more, that had written of Philosophy or Mathematicks, into their own Language ; whilft they let Books of Antiquity and Civil Hiftory lie unregarded.

Sir William Temple's next Enquiry, is From whence both the Ancients and Moderns have received their Knowledge ? His Method

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Method does not feem to be very natural, nor his Queftion very proper; fince, if Difcoveries are once made, it is not fo material to know who taught the feveral Inventors, as what thefe Inventors first taught others. But fetting that afide, the Sum of what he fays, in fhort, is this:

(w) 'The Moderns gather all their (w) Pag. ' Learning out of Books in Universities ; 11, 12. ' which are but dumb Guides, that can ' lead Men but one Way, without being ' able to fet them right, if they should ' wander from it. These Books, besides, ' are very few ; the Remains of the Wri-' tings of here and there an Author, that ' wrote from the Time of Hippocrates, to " M. Antoninus, in the compais of Six or ' Seven Hundred Years : Whereas Thales 'and Pythagoras took another fort of a ' Method ; Thales acquired his Know-'ledge in Ægypt, Phænicia, Delphos, and "Crete; (x) Pythagoras spent Twenty-(x) Pag. ' Two Years in Ægypt, and Twelve Years 13,14,15. " more in Chaldea, and then returned, ' laden with all their Stores; and not ' contented with that, went into A-⁶ thiopia, Arabia, India and Crete; and 'visited Delphos, and all the renowned f Oracles in the World.

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(y) 'Left we fhould wonder why P_{y-1} thagoras went fo far, we are told, that the Indian Brachmans were fo careful to educate those who were intended for Scholars, that as foon as the Mothers 'found themfelves with Child, much Thought and Diligence was employed about their Diet and Entertainment, to ' furnish them with pleasant Imaginations, ' to compose their Mind and their Sleeps ' with the best Temper, during the Time that they carry'd their Burthen. It is certain, that they must needs have been very Learned, fince they were obliged to fpend Thirty Seven Years in getting Instruction : Their Knowledge was all Traditional; they thought the World was Round, and made by a Spirit; they believed the Transmigration of Souls; and they effeemed Sickness fuch a Mark of Intemperance, that when they found themselves indisposed, they died out of 'Shame and Sullennefs, though fome ' lived an Hundred and Fifty or Two Hun-'dred Years. (z) Thefe Indians had 'their Knowledge, in all probability, ' from China, a Country where Learning ' had been in request from the Time of Fobius, their first King. It is to be pre-' fumed, that they communicated of their 'Store to other Nations, though they them-

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themfelves have few Foot-fteps of it remaining, befides the Writings of Conficuus, which are chiefly Moral and Political; becaufe one of their Kings, who
defired that the Memory of every Thing
fhould begin with himfelf, caufed Books
of all forts, not relating to Phyfic and
Agriculture, to be deftroyed.

(a) 'From India, Learning was car- (a) Page
'ried into Æthiopia and Arabia; thence, ²¹.
'by the Way of the Red Sea, it came in'to Phænicia; and the Ægyptians learn'd
'it of the Æthiopians.

This is a fhort Account of the Hiftory of Learning, as Sir William Temple has deduced it from its most ancient Beginnings. The Exceptions which may be made against it are many, and yet more against the Conclusions which he draws from it. For, though it be certain that the Ægyptians had the Grounds and Elements of most parts of real Learning among them earlier than the Greeks, yet that is no Argument why the Græcians schould not go beyond their Teachers, or why the Moderns might not out-doe them both.

Before I examine Sir William Temple's Scheme, Step by Step, I shall offer, as the Geometers do, some few Things as *Postulata*; which are so very plain, that they

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they will be affented to as foon as they are proposed. (1.) That all Men who make a Mystery of Matters of Learning, and industriously oblige their Scholars to conceal their Dictates, give the World great Reafon to fuspect that their Knowledge is all Juggling and Trick. (2.) That he that has only a Moral Perfuasion of the Truth of any Proposition, which is capable of Natural Evidence, cannot fo properly be effeemed the Inventor, or the Discoverer rather, of that Proposition, as another Man, who, though he lived many Ages after, brings fuch Evidences of its Certainty, as are fufficient to convince all competent Judges; especially when his Reafonings are founded upon Obfervations and Experiments drawn from, and made upon the Things Themfelves. (3.) That no Pretences to greater Meafures of Knowledge, grounded upon Accounts of Long Successions of Learned Men in any Country, ought to gain Belief, when fet against the Learning of other Nations, which make no fuch Pretences, unless Inventions and Discoveries answerable to those Advantages, be produced by their Advocates. (4.) That we cannot judge of Characters of Things and Perfons at a great Diftance, when given at Second-hand, unless we knew exactly how

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exactly bow how capable those Perfons, from whom fuch Characters were first taken, were to pass a right Judgment upon such subjects ; and also the particular Motives that biassed them to pass fuch Cenfures. If Archimedes should, upon his own Knowledge, fpeak with Admiration of the Ægyptian Geometry, his Judgment would be very confiderable : But if he should speak refpectfully of it, only because Pythagoras did fo before him, it might, perhaps, fignifie but very little. (5.) That exceffive Commendations of any Art or Science whatfoever, as also of the Learning of any particular Men or Nations, only prove that the Perfons who give fuch Characters never heard of any Thing or Perfon that was more excellent in that Way; and therefore that Admiration may be as well supposed to proceed from their own Ignorance, as from the real Excellency of the Perfons or Things; unlefs their respective Abilities are otherwise known.

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CHAP. VIII.

Of the Learning of Pythagoras, and the most Ancient Philosophers of Greece.

N my Enquiries into the Progrefs of Learning, during its obfcurer Ages, or thofe, at leaft, which are fo to us at this Diftance, I fhall begin with the Accounts which are given of the Learning of *Pythagoras*, rather than thofe of the more Ancient Gracian Sages ; becaufe his School made a much greater Figure in the World, than any of thofe which preceded *Plato* and *Ariftotle*. In making a Judgment upon the Greatnefs of his Performances, from the Greatnefs of his Reputation, one ought to confider how near to his Time thofe lived, whofe exprefs Relations of his Life are the oldeft we have.

Diogenes Laërtius is the ancientest Author extant, that has purposely written the Life of Pythagoras : According to Menagius's Calculations, he lived in M. Antonimus's Time: And all that we learn from Diogenes, is only, that we know very little certainly about Pythagoras. He cites, indeed, great Numbers of Books; but those

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fo very difagreeing in their Relations, that a Man is confounded with their Variety. Befides, the Gracians magnified every Thing that they commended, fo much, that it is hard to guess how far they may be believed, when they write of Men and Actions at any Distance from their own Time. Græcia Mendax was almost Proverbial amongst the Romans. But by what appears from the Accounts of the Life of Pythagoras, he is rather to be ranked among the Law-givers, with Lycurgus and Solon, and his own two Difciples, Zaleucus and Charondas, than amongft those who really carried Learning to any confiderable height. Therefore, as fome other Legislators had, or pretended to have, Super-natural Affiftances, that they might create a Regard for their Laws in the People to whom they gave them; to Pythagoras found out several Equivalents, which did him as much Service. He is faid, indeed, to have lived many Years in Ægypt, and to have converfed much with the Philosophers of the East; but if he invented the XLVIIth. Propofition in the First Book of Euclid, which is unanimoufly afcribed to him by all Antiquity, one can hardly have a profound Effeem for the Mathematical Skill of his Masters. It is, indeed, a very noble Propolition,

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polition, the Foundation of Trigonometry, of universal and various Use in those curious Speculations about Incommenfurable Numbers ; which his Disciples from him, and from them the Platonists, fo exceedingly admired. But this fhews the Infancy of Geometry in his Days, in that very Country which claims the Glory of Inventing it to her felf. It is probable, indeed, that the Ægyptians might find it out; but then we ought also to take notice, that it is the only very confiderable Inftance of the real Learning of Pythagoras that is preferved. Which is the more observable, because the Pythagoreans paid the greatest Respect to their Master, of any Sect what sever ; and fo we may be fure that we fhould have heard much more of his Learning, if much more could have been faid : And though the Books of Hermippus and Aristoxenus (b) are lost, yet Laërtius, who had read them, and Porphyry and Jamblichus, Men writers of of great Reading, and diffuse Knowledge, Pythagoras who, after Diogenes, wrote the Life of the fame Pythagoras, would not have omitted any material Thing of that kind, if they had any where met with it.

Amongst his other Journeys, Sir William Temple mentions Pythagoras's Journey (c)Pag.is. to Delphi (c). What that Voyage of his is here remembred for, it is not easie to guels.

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guess. Apollo's Priestesses are not famous for difcovering Secrets in Natural or Mathematical Matters; and as for Moral Truths, they might as well be known, without going to Delphi to fetch them. Van Dalen, in his Difcourses of the Heathen Oracles, has endeavoured to prove, that they were only Artifices of the Priefts, who gave fuch Anfwers to Enquirers as they defired, when they had either Power or Wealth to back their Requests. If Van Dalen's Hypothesis be admitted, it will strengthen my Notion of Pythagoras very much; fince, when he did not care to live any longer in Samos, because of Polycrates's Tyranny, and was defirous to establish to himself a lasting Reputation, for Wifdom and Learning, amongst the ignorant Inhabitants of Magna Græcia, where he fetled upon his Retirement, he was willing to have them think that Apollo was of his Side. That made him establish the Doctrine of Transmigration of Sou's, which he brought with him out of India, that fo those Italians might think that he had a certain Reminiscence of Things paft, fince his first Stage of Life, and the Beginning of the World; and upon that Account admire him the more : For Laërtius (d) fays, that he pretended to (d) Vite remember every Thing that he had done Pythag. formerly, H

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formerly, whilf he was in those other Bodies ; and that he received this as an efpecial Favour from Mercury, who gave him his Choice of whatfoever he defired, except Immortality. (e) For these Rea-(e) Ibid. fons also he obliged his Scholars to go 5.10. through a Trial of Five Years, to learn Obedience by Silence : And that afterwards it was granted to fome few, as a particular Favour, to be admitted into his Prefence. These Things tended very much to imprefs a Veneration of his Perfon upon his Scholars, but fignified nothing to the Advancement of Learning ; yea, rather hindred it. Those that live in the (f) Pag. End of the World, (f) when every Thing, 53. according to Sir William Temple, is in its Declension, know no Way so effectual to promote Learning, as much Conversation and Enquiry ; and, which is more, they have no Idea how it can be promoted without them. The Learned Men of the prefent Age pretend to no Acquaintance with Mercury or Apollo, and can do as little in Natural Knowledge by fuch a Sham-Revelation, as they can by Reminifcence. If a Man should, for Five Years together, read Lectures, to one that was not allowed to make Paufes, or ask Questions; another Man, in the ordinary Road, by Books and Professors, would learn more, torinerly, at

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at least to much better purpose, in Six Months, than he could in all that Time. Pythagoras was, without question, a wife Man, well skill'd in the Arts of Civil Prudence; by which he appealed great Disturbances in those Italian Commonwealths : He had much more Knowledge than any Man of that Age in Italy, and knew how to make the most of it. He took great Delight in Arithmetical Speculations, which, as Galileo (g), not im- (g) softem. probably, gueffes, he involved in Myste- Cofmic. ries, that fo ignorant People might not despife him, for bufying himself in such abstrufe Matters, which they could not comprehend; and if they could have comprehended, did not know to what Use to put them. He took a fure Way to have all his Studies valued, by obliging his Scholars to refign up their Understandings to his Authority and Dictates. The great Simplicity of his Manners, with the Wifdom of his Axioms and Symbols, charmed an ignorant Age, which found real Advantages, by following his peaceful Meafures ; much above those that were formerly procured by Rapin and Violence. This feems to be a true Account of Pythagoras, in the Hiftory of whole Reputation, there is nothing extraordinary, fince Civilizers of Nations Twelve H 2 have

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have always been as much magnify'd as the Inventors of the moft useful Arts: But one can no more conclude from thence, That *Pythagorus* knew as much as *Aristotle* or *Democritus*, than that Friar *Bacon* was as great a Mathematician as Dr. *Barrow*, or Mr. *Newton*, because he knew enough to be thought a Conjurer in the Age in which he lived, and no despicable Person in any other.

But it may not be amifs to give a Taft of fome of the *Pythagorean* Notions; fuch, I mean, as they first started in *Europe*, and chiefly valued themfelves upon. Of this fort, were their Arithmetical Speculations: By them they pretended to explain the Caufes of Natural Things. The following Account of their Explication of Generation, is taken out of *Cenforinus* and *Ariftides*:

Perfect Animals are generated in two diffinct Periods of Time; fome in Seven
Months, fome in Nine. Those Generations that are compleated in Seven
Months, proceed in this Order : In the first Six Days after Conception, the first Six Days after Conception, the Humour is Milky; in the next Eight it is turned into Blood; which Number 8 bears the Proportion of 1; to 6; in Nine Days more it becomes Flesh;
9 is in a Selcuple Proportion to 6; in 'Twelve

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Twelve Days more the Embryo is form'd; 12 is double to 6 : Here then are these Stages, 6, 8, 9, 12; 6 is the first perfect Number, because it is the Summ of 1, 2, 3, the only Numbers by which 'it can be divided : Now, if we add these Four Numbers, 6, 8, 9, 12, together, the Summ is 35; which multiply'd by 6, makes 210, the Number of ' Days from the Conception to the Birth ; ' which is just Seven Months, allowing ' 30 Days to a Month. A like Propor-' tion must be observed in the larger Period of Nine Months; only 10, the ' Summ of 1, 2, 3, 4, added together, ' must be added to 35. which makes 45; that multiply'd by 6, gives 270, or ' Nine times 30, the Number of Days in ' larger Births.

If these fine Notions be compar'd with Dr. Harvey's upon the same Subject, no doubt but we shall all be Converts to Sir William Temple's Opinion, and make a vast Difference between the poor Observations of these later Ages, and the sublime Flights of the Ancients.

Now, though abstracted Mathematical Theories, which cannot be relished by one that has not a tolerable Skill in Mathematicks before, might, perhaps, prudently be concealed from the Vulgar, by H 3 the

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the Pythagorean School; and in their ftead, fuch grave Jargon as this impofed upon them; yet even that fhews how little Knowledge of Nature they could pretend to. Men that aim at Glory, will omit no probable Methods to gain it, that lie in their Way; and folid Difcoveries of a real Infight into Nature, would not only have been eternally true, but have charm'd Mankind at another Rate, than fuch dry faplefs Notions as feem at firft View to have fomething of Subtilty; but upon a Second Reflection, appear vain and ridiculous.

(b) Fag. 28.

From Pythagoras, I fhall go on to the Ancient Sages (b), who were fo learned in Natural Philosophy, that they Foretold not only Eclipses in the Heavens, but Earthquakes at Land, and Storms at Sea, great Droughts, and great Plagues, much Plenty or much Scarcity of certain forts of Fruits or Grain, not to mention the Magical Powers attributed to several of them, to allay Storms, to raise Gales, to appease Commotions of People, to make Plagues cease.

One of the ancientest of these was *Thales*: He was so deeply skill'd in Astronomy, that by the Sun's Annual Course he found out the Equinoxes and Solftices: He is faid also first to have foretold Eclipses; some Geometrical Proper-

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ties of Scalene Triangles are aferibed to him, and challenged by Euphorbus . Nice we are fure they were not, becaufe the Theorem of Pythagoras was not then as notable as the English Farmetuo bnuot When Sir William Temple extolled the Skill of these Ancient Sages, in foretelling Changes of Weather, he feems to have forgotten that he was in England, and fantied that these Old Philosophers were there too. The Climates of Aha Minor, and Greece, are not so various as ours ; and at some stated Times of the Year, of which the recurrent Winds give them conftant Warning, they are often troubled with Earthquakes, and always with violent Tempests : So that by the Conjectures that we are here able to make of the Weather at some particular Seafons, though we labour under fo great Difadvantages, we may eafily guess how much certainer Predictions may be made by curious Men in ferener and more regular Climates; which will take off from that Admiration that otherwife would be paid to those profound Philosophers, even though we should allow that all those Stories which are told of their Skill, are his Oblervations, that he co.surt ylfaxa

(k) Vit. Democriti, S-42-

(i) Vit.

Empeda-

clis, 5.60.

Besides, there is Reason to believe that we have the Result of all the Observa-H 4 tions

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tions of these Weather-wise Sages in Aratus's Diosemia, and Virgil's Georgies; such as those upon the Snuffs of Candles, the Croaking of Frogs, and many others quite as notable as the English Farmer's Living Weather-Glass, his Red Cow that prick'd up ber Tail, an Infallible Presage of a coming Shower.

Sir William Temple's Method leads me now to confider, what Effimate ought to be made of the Learning of those Nations, from which he derives all the Knowledge of these Ancient Greeks : I shall only therefore give a short Specimen of those Difcoveries, with which these Ancient Sages enriched the Ages in which they lived, as I have already done of the Pythagoreans, and then proceed.

(i) Vit. Empedoelis, §.60.

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(k) Vit. Democriti, §-42Diogenes Laërtius informs us of Empedocles's (i) Skill in Magic, by the Inflance of his flopping those pestilential Vapours that annoy'd his Town of Agrigentum. He took some Assess and flea'd them, and hung their Hides over those Rocks that lay open to the Etessan Winds, which hindred their Passes, and so freed the Town. He tells another Story of Democritus (k), That he was so nice in his Observations, that he could tell whether a Young Woman were a Virgin, by her Looks, and could find it out, though the the source of the source

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fhe had been corrupted but the Day before; and he knew, by looking upon it, that fome Goat's Milk that was brought him, was of a Black Goat that had had but one Kid.

These are Inftances very seriously recorded by grave Authors of the Magical Wisdom of the Ancients; that is, as Sir William Temple defines it, of that (1) ex- (1)Pag.46. celling Knowledge of Nature, and the various Powers and Qualities in its several Productions, and the Application of certain Agents to certain Patients, which, by Force of some peculiar Qualities, produce Effects very different from what fall under Vulgar Observation and Comprehension.

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I to their Foundations, has been equal-

had been an End of the Controvertie.

Of the History and Geometry of the Ancient Ægyptians.

From these Ancient Sages, Sir William Temple goes to the Nations from which they received their Knowledge, which are Ægypt, Chaldæa, Arabia, India, and China; only he seems to invert the Order, by pretending that China and India were

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were the Original Fountains from which Learning still ran Westward. I shall speak of them in the Order in which I have named them; because the Claims of the Ægyptians and Chaldæans having a greater Foundation in Ancient Hiftory, deferve a more particular Examination. vd belgoo

It must be owned, That the Learning which was in the World before the Gra-(17Pag.46. cian Times was almost wholly confined to the Ægyptians, excepting what was amongst the Israelites : And whosoever does but confider how difficult it is to lay the First Foundations of any Science, be they never fo finall, will allow them great Commendation; which if their Advocates had been contented with, there had been an End of the Controversie. Inftead of that, all that has fince been added to their Foundations, has been equally challenged as originally due to them, or at least once known by them, by (m) Olaus Borrichius, and feveral others long before Sir William Temple wrote upon this Argument.

> Before 1 enter upon this Question, I shall defire that one Thing may be taken Notice of; which is, That the Ægyptians anciently pretended to fo great Exactness, that every Failure is more justly imputable to them, than to other Nations; not only

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only their Hiftory was fo carefully look'd after, that there was a College of Priefts fet up on purpofe, whole chief Bulinels it was fucceffively to preferve the remarkable Matters of Fact that occurred in their own Ages, and transmit them undiffuted to Posterity, but also, there was answerable Care taken to propagate and preferve all other Parts of uleful Learning : All their Inventions in Physic, in Geometry, in Agriculture, in Chymistry, are faid to have been infcribed on Pillars, which were preferved in their Temples ; whereby not only the Memory of the Things themselves was less liable to be lost, but Men were farther encouraged to use their utmost Diligence in making Difcoveries that might be of Publick Advantage, when they were certain of getting Immortality by these Inventions. This generous Cuftom was the more to be applauded, becaufe every Man was confined to one particular Part of Learning, as his chief Bulinels; that fo nothing might efcape them. One was Physician for the Eyes, another for the Heart, a third for the Head in general, a fourth for Chirurgical Applications, a fifth for Womens Diseases, and so forth. Anatomy, we are told, was fo very much cultivated by the Kings of Ægypt, that they particularly ordered the Bodies of atty piran dead

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dead Men to be opened, that fo Phyfic might be equally perfect in all its parts, Where fuch Care has been used, proportionable Progresses may be expected; and the World has a Right to make a Judgment, not only according to what is now to be found, but according to what might have been found, if these Accounts had keen ftrictly true.

In the first Place therefore, we may observe, That the Civil History of Agypt is as lamely and as fabuloufly recorded, as of any Nation in the Universe : And yet the Ægyptians took more than ordinary Care to pay all possible Honours to the Dead, especially their Kings; by preferving their Bodies with Bitumen and refinous Drugs, and by building fumptuous Monuments to lay them in: This certainly was done to perpetuate their Memories, as well as to pay them Respect : It was at least as Ancient as Joseph's time (n); how much older we know not. The Jews, who for another and a more facred Reafon. took Care of their Dead, took equal Care to preferve their Genealogies, and to draw an Uniform Thread of their Hiftory from Abraham, down to the Destruction of the Second Temple. Herein they acted confiftently, and their History is a standing Instance of this their Care; whereas the Ægyptian

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Ægyptian History is fo very inconfistent a Business, that it is impossible to make a coherent Story out of it : Not for Want of Materials, but becaufe their Materials neither agree with themfelves, nor with the Hiftory of any other Nation in the World.one ; month do conto

A more certain Proof of the Deficiency of the Ægyptian History cannot be produced, than that the Time of the building of the Pyramids was loft when Herodotus was in Ægypt; as also the Æra of the only great Conqueror of that Nation, Sefostris. The first of these is not slightly to be paffed over. Such vaft Fabricks could not be raifed without Numbers of Hands, and a great Expence of Time and Money, or fomething equivalent. The Traditions of their Erection are indeed minutely enough set down in Herodotus, but then they are fet down as Traditions ; and, which is more, they are folely to be found in him, though he is not the only ancient Writer that mentions the Pyramids; he only names Cheops and Mycerinus, who are differently named by other Historians; and the Time when they lived, is as little agreed upon, as the Names by which they are called. The Hiftory of a Nation can fure be worth very little, that could not preferve the Memory of the Names

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Names at leaft, if not the Time, of those Princes, who were at fo much Pains to be remembred, in a Place where their Monuments were fo visible, that no Perfon could fail up and down the *Nile*, to or from their Capital City *Memphis*, without taking notice of them; and every Man, upon his first feeing of them, would naturally ask, what they were, by whom, and for what Intent erected. To which we may add, That these very Buildings are more exactly deferibed in Mr. Greaves's *Pyramidographia*, than in any ancient Author now extant.

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The Difficulty of determining the Age when Sefostris lived, is another Instance of the Carelefness of the Ægyptian Historians. Either he was the fame with She-(bak, who Invaded Judæa in Rehoboam's Time, (as Sir John Marsham (o) afferts after Josephus) or not : If he was, his Time is known indeed ; but then the Authority of Manetho, and of those Pillars from which Manetho pretended to transcribe the Tables of the feveral Dynaftics of the Ægyptian Kings, is at an End : Befides, it contradicts all the Greek Writers that mention Sefostris, who place him in their fabulous Age, and generally affirm, that he lived before the Expedition of the Argonauts, which preceded the

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the War of Troy. If he was not that Shefbak, then the Time when the only famous Conqueror of the Ægyptian Nation lived is uncertain, and all that they know of him is, that once upon a time there was a mighty King in Ægypt, who conquer'd Æthiopia, Arabia, Affyria, and up to Colchis, with Afia the Lefs, and the Iflands of the Ægæan Sea, where having left Marks of his Power, he returned home again to reap the Fruits of his Labours : A Tradition which might have been preferved without fetting up a College at Heliopolis for that purpofe.

The very Learned Mr. Dodwell, in his Discourse concerning the Phænician History of Sanchoniathon, advances a Notion which may help to give a very probable Account of those vast Antiquities of the Ægyptians pretended to by Manetho. He thinks that after the Hiftory of Moses was translated into Greek, and fo made common to the Learned Men of the neighbouring Nations, that they endeavoured to rival them by pretended Antiquities of their own, that fo they might not feem to come behind a People, who till then had been to obscure. This, though particularly applied by that Excellent Perfon to Sanchoniathon's Hiftory, feems equally forcible in the present Controversie : For Manetho Dynafties

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Manetho dedicated his Hiftory to Ptolemes Philadelphus, at whose Command it was written, and wrote it about the Time that the LXXII Interpreters translated the Pentateuch. The great Intercourse which the Ægyptians and Israelites formerly had each with other, made up a confiderable part of that Book, and occafion'd its being the more taken notice of; fo that this Hiftory being injurious to the vain Pretences of that People, might very probably provoke fome that were jealous for the Honour of their Nation, and Manetho among the reft, to fet up an Anti-Hiftory to that of Mofes ; and to dedicate it to the fame Prince who employ'd the Jews to translate the Pentateuch, and who ordered Manetho himfelf to bring him in an Account of the Ægyptian Antiquities, that fo any Prejudices which Ptolemee, who was of another Nation himfelf, might entertain against their Country, might be effectually removed.

This Notion is the more probable in our Cafe, becaufe it equally holds, whether we follow Sir John Marsham's Accounts, who has made the Ægyptian Antiquities intelligible; or whether they are left in the fame Confusion that they were in before. That most Learned Gentleman has reduced the wild Heap of Ægyptian Dynasties

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Dynasties into as narrow a Compass as the Hiftory of Moses, according to the Hebrew Account, by the help of a Table of the Theban Kings, which he found under Eratosthenes's Name, in the Chronography of Syncellus. For, by that Table, he (1.) Diftinguished the Fabulous and Mystical part of the Ægyptian History, from that which feems to look like Matter of Fact. (2.) He reduced the Dynasties into Collateral Families, reigning at the fame time, in feveral Parts of the Countrey ; which, as fome Learned Men faw before, was the only Way to make those Antiquities confistent with themselves, which till then were confused and incoherent. But it feems evident, by the Remains that we have of Manetho in Eufebius, and by the Accounts which we have of the Ægyptian History in Josephus's Books against Appion, and in the Ancient Christian Writers, that the Ægyptians in Ptolemee's Time did not intend to confine themfelves within the Limits fet by Mofes, but refolved to go many Thousand Years beyond them. If therefore Eratofthenes's Table be genuine, not only Manetho's Authority finks, but the Pillars from whence he transcribed his Tables of the Kings of their feveral Dynasties are Impostures, fince they pretend to give fucceflive Tables

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bles of valt Numbers of Kings reigning in feveral Families, for many Ages ; which ought to be contracted into a Period of Time, not much exceeding MM Years. If the Table of *Eratofthenes* be not the true Rule by which the Ægyptian Antiquities are to be fquared, then the former Prejudices will return in full force ; and one cannot value *Tables*, and *Pillars*, and *Priefts*, that could not fix the Time of the *Erection of the Pyramids*, and the Age of Sefoftris, to certainly, as that when *Herodotus* was in the Country, they might have been able to inform him a little better than they did.

This long Enquiry into the Ægyptian Hiftory, will not, I hope, be thought altogether a Digreflion from my Subject, because it weakens the Ægyptians Credit in a most sensible Part : For, if their Civil History is proved to be egregiously fabulous, or inconsistent, there will be no great reason to value their mighty Boasts in any thing else; at least, not to believe them upon their own Words, without other Evidence.

In Geometry, the Ægyptians are, of all hands, allowed to have laid the first Foundations: The Question therefore is, How far they went? Before this can be answer'd fatisfactorily, one ought to enquire whether

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whether Pythagoras and Thales, who went fuch long Voyages to get Knowledge, would not have learn'd all that the Ægyptians could teach them ? Or, whether the Ægyptians would willingly impart all they knew? The former, I fuppofe, no body questions : For the latter, we are to distinguish between Things that are concealed out of Interest, and between other Things, which, for the fame Interest, are usually made public. The Secrets of the Ægyptian Theology were not proper to be discovered, because by those Mysteries they kept the People in awe : The Philo-Sopher's Stone likewife, if they had been Masters of it, might, for Gain, have been concealed : And Medicinal Arcana are of Advantage often-times to the Posseffors, chiefly becaufe they are Arcana. But Abstracted Mathematical Theories, which bring Glory to the Inventors, when they are communicated to those that can relish them, and which bring no Profit when they are locked up, are never concealed from fuch as fhew a Defire to learn them ; provided that by fuch a Difcovery the first Inventors are not deprived of the Glory of their Inventions ; which is encreafed by publishing, if they have before-hand taken care to fecure their Right. So that fince Pythagoras is commended for no 12 famous

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famous Invention in Geometry, except the XLVIIth Proposition of the First Book of Euclid : And fince, Thales is faid to have facrificed an Oxe, for finding out how to infcribe a Rectangled Triangle within a Circle, which implies, that he learn'd it not of the Ægyptians, we may reasonably conclude, that these two Gracian Philosophers brought nothing of more Moment, in that Way, with them, out of Ægypt; and therefore, either the farther Difcoveries that were made in Geometry, were made by the Ægyptians afterwards; or, which is more probable, they were Græcian Superstructures upon Ægyptian Foundations. Befides, though a Man travelled into Ægypt, yet it does not follow from thence, that he learn'd all his Knowledge there. Though Archimedes and Euclid were in Ægypt, yet they might, for all that, have been Inventors themselves of those noble Theorems which are in their Writings. In Archimedes's Time, the Greeks were fetled in Alexandria, under the Ptolemee's, who were then, and long before, Lords of Ægypt; and the Learning of Ægypt, at that Time, could no more be attributed to those Old Ægyptians, who lived before the Gracian Conqueft, than the Learning of Archbishop Ufber, Sir James Ware, and Mr. Dodwell, can

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can be attributed to a Succession of those Learned Irish-men who were so confiderable in the Saxon Times.

This last Confideration is of very great Moment; for few of the Greeks, after Plato, went into Ægypt purely for Knowledge : And though Plato brought feveral of his Notions out of Agypt, which he interwove into his Philosophy, yet the Philosophers of the Alexandrian School, who, for the most part, were Platonists, fhew, by their Way of Writing, and by their frequent Citations out of Plato's Books, that they chose to take those Things from the Græcians, which, one would think, might have been had nearer Home, if they had been of the Original Growth of the Countrey. The most considerable Propositions in Euclid's Elements were attributed to the Greeks; and we have nothing confelledly Ægyptian, to oppose to the Writings of Archimedes, Apollonius Pergæus, or Diophantus : Whereas, had there been any Thing confiderable, it would most certainly have been produced, or, at least, hinted at, by some of those very Learned Ægyptians, or rather later Greeks born in Ægypt, whole Writings that treat of the Extent of the Ægyptian Knowledge, are still extant.

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Having now examined the History and Geometry of the Ægyptians, it will be much easier to go through their Pretences, (or rather the Pretences of their Advocates) to Superiority in other Parts of Learning. The Ægyptians seem to have verified the Proverb, That he that has but one Eye, is a Prince among those that have none. This was Glory enough; for it is always exceedingly Honourable to be the First, where the Strife is concerning Things which are worth contending for.

CHAP. X.

Of the Natural Philosophy, Medicine and Alchemy of the Ancient Ægyptians.

THE Ægyptian Natural Philosophy and Physic shall be joined together, because there is so great an Affinity between them, that true Notions in either Science affist the other. Their Physic, indeed, was very famous in Homer's Time; and wonderful Things are told of Hermes, the pretended Father of the Chimical Art. But one ought to diffinguish between

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tween Particular Medicines, how noble foever, and General Theories founded upon a due Examination of the Nature of those Bodies from whence fuch Medicines are drawn, and of the Constitution and Fabrick of the Bodies of the Patients to whom they are to be applied, and of the incidental Circumstances of Time and Place; which are necessary to be taken in by a wife Phyfician. The Stories of the West-Indian Medicines are many of them very aftonishing, and those Salvages knew perfectly how to use them before ever the Europæans came among them, and yet they were never efteemed able Phyficians. This Instance is applicable to the prefent Question : Galen often mentions Ægyptian Remedies, in his Treatifes of Medicines, which are numerous and large, though he feldom mentions any of their Hypotheles, from which only a Man can judge whether the Ægyptians were well-grounded Phyficians, or Empiricks. This is the more remarkable, becaufe Galen had lived long at Alexandria, and commends the Industry of the Alexandrians in cultivating Anatomy, which is fo necessary a Part of a Physician's Business.

In General therefore we may find, that all the Ægyptian Notions of Physical Mat-I 4 ters

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ters were built upon Astrological and Magical Grounds : Either the Influence of a Particular Planet, or of fome Tutelar Dæmon, were still confidered. These Foundations are precarious and impious, and they put a ftop to any Encrease of real Knowledge, which might be made upon other Principles. He that minds the Pofition of the Stars, or invokes the Aid of a Dæmon, will rarely be follicitous to examine nicely into the Nature of his Remedies, or the Constitution of his Patients, without which, none of the ancient Rational Physicians believed that any Man could arrive at a perfect Knowledge of their Art. So that if Hippocrates Jearn'd his Skill in Ægypt, as it is pretended, the Ægyptian Physicians afterwards took a very stupid Method to run fo far upon Imaginary Scents, as even to lofe the Memory that they had ever purfued more Rational Methods. Those that would be further fatisfy'd of the Truth (p) DeH:r- of this Matter of Fact, may find it abundantly proved in Conringius's Difcourfe (p) of the Old Ægyptian Medicine.

metica Agyptiorum retere or Paracelfi. corum rova Medicina.

But we are told, that there was a particular fort of Physic, used only among st the Agyptian Priests, which was kept fecret, not only from the Greeks that came into their Country for Knowledge, but trom

from the Generality of the Natives themfelves; wherein, by the help of the Grand-Elixir, they could do almost any thing but reftore Life to the Dead. This Elixir, which was a Medicine made with the Philosophers-Stone, was a Chymical Pre-

paration; and, if we may believe Olaus Borrichius (q), the Great and Learned Advocate of the Chymical and Adept Philosophers, was the Invention of Hermes, who was Con-

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temporary with Is and Ofiris, whole Age none ever yet determined. If these Claims are true, there is no question but the Ægyptians understood Nature, at least that of Metals, in a very high degree. This is an Application of Agents, to Patients (r); which, if made good, will (r) Pag. go farther than any Affertion commonly 46. brought to prove the Extent of Ægyptian Knowledge : And therefore, I prelume, I shall not be thought tedious, if I enlarge more particularly upon this Queftion, than I have done upon the reft; especially fince there has not been, that I know of, any direct Anfwer ever printed to Borrichius's Book upon this Argument, which he wrote against the foremention'd Discourse of Conringius.

One may justly wonder that there should have been to noble an Art as that of turning bafer Metals into Gold and Silver fo long in the World, and yet that there should be fo very little, if any thing, faid of it in the Writings of the Ancients. To remove this Prejudice therefore, all the fabulous Stories of the Greeks, have, by Men of fertile Inventions, been given out to be difguifed Chymical Arcana. Jafon's Golden Fleece, which he brought from Colchis, was only a Receipt to make the Philosopher's-Stone ; and Medea restored her Father-in-Law, Æfon, to his Youth again by the Grand Elixir. Borrichius is very confident that the Ægyptian Kings built the Pyramids with the Treasures that their Furnaces afforded them ; fince, if there were fo many Thousand Talents expended in Leeks and Onions, as Herodotus tells us there were, which must needs have been an inconfiderable Summ, in comparison of the whole Expence of the Work, one cannot imagine how they could have raifed Money enough to defray the Charge of the Work any other Way. And fince Borrichius, Jacobus Tollius has fet out a Book called Fortuita, wherein he makes most of the Mythology to be Chymical Secrets.

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But though Borrichius may believe that he can find fome obscure Hints of this Great Work in the Heathen Mythologists, and in fome fcatter'd Verfes of the Ancient Poets, which, according to him, they themfelves did not fully understand when they wrote them; yet this is certain, That the ancientest Chymical Writers now extant, cannot be proved to have been fo old as the Age of Augustus. Conringius believes that Zosimus Panopolita is the oldest Chymical Author that we have, whom he fets lower than Constantine the Great. That perhaps may be a Mistake; for Borrichius, who had read them both in MS. in the French King's Library, brings very plaufible Arguments to prove that Olympiodorus, who wrote Commentaries upon fome of the Chymical Difcourses of Zosimus, was CL Years older than Constantine; because he mentions the Alexandrian Library in the Temple of Serapis, as actually in being, which, in Ammianus Marcellinus's Time, who was Contemporary with Julian the Apostate, was only talk'd of, as a thing deftroyed long before. I don't mean that which was burnt in Julius Cæsar's Time, but one afterwards erected out of the fcatter'd Remains that were faved from that great Conflagration, which is mentioned by Tertullian,

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Tertullian, under the Name of Ptolemee's Library at Alexandria. If this Zosimus is the fame whom Galen mentions, for a Remedy for Sore Eyes, in his IVth. Book of Topical Medicines, then both he and Olympiodorus might have been confiderably older, and yet have lived fince our Bleffed Saviour's Time. However, be their Age what it will, they wrote to themfelves, and their Art was as little known afterwards as it was before : Julius Firmicus is the First Author that has mention'd Alchemy, either by Name, or by an undifputed Circumlocution; and he dedicated his Book of Astrology to Constantine the Great. Manilius indeed (who is fuppos'd to have liv'd in Augustus's Time) in the IVth. Book of his Astronomicon, where he gives an Account of those that are born under Capricorn, has these words,

Depositas & opes, terræque exurere venas, Materiemque manu certà duplicarier arte :

which last Verse feems to be a Description of Alchemy : But, besides that the Verse is suspected to be spurious; even the Age of Manilius himself is not without Controversie; some making him Contemporary with the Younger Theodosius, and

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and confequently later than Firmicus himfelf. We may expect to have this Queftion determined, when my most Learned Friend, Dr. Bentley, shall oblige the World with his Censures and Emendations of that Elegant Poet.

But if these Gracian Chymists should have the utmost Antiquity allowed them that Borrichius defires, it would fignifie little to deduce their Art from Hermes ; fince Men might pretend that their Art. was derived from him in Zofimus's Days, and yet come feveral Thoufand Years fhort of it, if we follow the Accounts of Manetho. Wherefore, though this is but a Negative Argument, yet it feems to be unanswerable; because if there had been fuch an Art, fome of the Greeks and Romans, who were fucceflively Mafters of Ægypt, would have mention'd it, at least, before Zosimus's Time. Such a Notice, whether with Approbation, or Contempt, had been fufficient to afcertain the Reality of fuch a Tradition. Tacitus (s) tells us, (s) Annal. that Nero fent into Africa to find fome Lib. XVI. Gold, that was pretended to be hid under Ground : This would have been an excellent Opportunity for him to have examined into this Tradition, or to have punished those, who either falfly pretended to an Art which they had not, or would

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would not difcover the true Secret; which, in his Opinion, would have been equally criminal; and had *Nero* done it, *Pliny* would have told us of it, who was very inquifitive to collect all the Stories he could find of every thing that he treats about, whereof Gold (t) is one that is not flightly paffed over; and befides, he never omits a Story becaufe it appears ftrange and incredible, if we may judge of what he has left out, by what he has put in, but often ranges the wonderful Qualities of Natural Bodies under diftinct Heads, that they might be the more obferved.

To evade the Force of this Argument, (u) Herm. Borrichius (u) fays that the Ægyptians Ægypt. were afraid of their Conquerors, and therefore industriously concealed their Art. But there is a wide Difference between concealing the Rules and Precepts of an Art, and concealing the Memory that ever there was fuch an Art. If it was ever known before the Persian Conqueft, as by his Account of the Erection of the Pyramids, which were built many Ages before Cambyfes's Time, it is plain he believes it was, though we fhould allow it to have been in few Hands, it is not credible that this Art of Making Gold should never have been pretended

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to before Diocletian's Time, who is reported by Suidas to have burnt great Numbers of Chymical Books, which gave an Account of the Process. Whereas afterwards, every now and then, Footsteps of cheating Alchemists are to be met with in the Byzantine Hiftorians. It was not possible to pretend to greater Secrecy in the Manner of their Operations, than is now to be found in all the Writings of Modern Adept Philosophers (as they call themfelves.) And yet these Men, who will not reveal their Proces, would think themselves affronted, if any Man should question the real Existence of their Art.

But the Hypothesis of those who find Chymical Secrets in *Homer*, Virgil, and the rest of the ancient Poets, is liable to several Exceptions taken notice of neither by Conringius nor Borrichius.

(1.) They fay, that when Jason heard that the King of Colchis had a Book written upon a Ram's-skin, wherein was the Process of the Philosophers-Stone, he went with the Argonauts to fetch it. Here it may be objected, (1.) That it is not likely that Sessifier the Argoptian Priests to reveal such a Secret to that conquered People. Diocletian, according to them, burnt

burnt all the Chymical Books that he could find in Ægypt, that the Ægyptians might not rebel, when they were deprived of that Fund, which supported their Wars. And Borrichius fuppofes that the Ægyptian Priests used this Art chiesly to fupply the Expences of their Kings. (2.) How came Jason and the Argonauts not to grow richer by this Fleece? It cannot be pretended that it was concealed from them, upon the Account of its being (like the Books of the Modern Adepti) written in fo obscure a Stile, that it was unintelligible for want of a Master; fince Medea was with Jason, who had the Secret, what or how great foever it was. (3.) Since the Gracians were not tied to Secrecy, how came their Traditions to be to obfcure, that those Passages in Apollonius Rhodius's Argonautics which are fupposed to be meant of the Grand Elixir, were never applied to a Chymical Senfe, till the Writings of Synefius, Zofimus, and the other old Græcian Chymists appeared ? Especially fince, (4.) Apollonius Rhodius himself was an Alexandrian Greek, born in Ægypt, and fo could eafily acquaint himfelf with the Traditions of that Countrey, which he, originally of another Nation, was under no Obligation to conceal.

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(2.) The Chymifts, at least Borrichius for them, own Democritus's Books to be genuine, upon the Credit of Zofimus who quotes them : If they are, this pretended Secrecy falls to the ground : For Democritus affirms, That he learn'd his Art from Oftanes a Mede, who was fent by the Kings of Persia into Ægypt, as Governor of the Ægyptian Priests. Then the Secret was divulged to fome of the Conquerors of their Countrey. If fo, why no more Tradition of it? If not the Process it felf, yet at least the Memory that once there was fuch a Process ?. Which would have been enough for this Purpose. The fame Question may be asked of Democritus, to whom Oftanes revealed it. This will weaken Zosimus's Credit as an Antiquary, upon whole Affertion most of this pretended Antiquity is founded. Since at the fame time that he objects the Secrecy of the Ancient Ægyptian Priests, as a Reason why the Memory of this Art was fo little known, he owns himself obliged to a Greek, who had it from the Ægyptians at Second Hand out to anoiniber T on

But how will these Pretenders to remote Antiquity, who tell us, that *Moses*, by his Skill in Chymistry, ground the Golden Calf to Powder, reconcile a Paf-K fage

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fage in Theophrastus to their Pretensions ? He, speaking of Quick-filver (w), fays, that the Art of Extracting it from Cinnabar was not known till xC Years before his Time, when it was first found out by Callias an Athenian. Can we think that the Ægyptians could hinder thefe inquifitive Gracians, who staid to long in their Country, from knowing that there was fuch a Metal as Mercury ? Or could thefe Ægyptians make Gold without it ? If they could, they might reafonably suppose that the Ifraelites could make Brick without Straw, fince they could make Gold and Silver without that, which Modern Adepti affirm to be the Seed of all Metals. Theophrastus's Words are too general, to admit of an Objection, as if he believed that Callias's Invention ought to be limited to his own Country. This, join'd to the great Silence of the Ancients (efpecially Herodotus and Diodorus Sicalus, who dwell fo long upon the Egyptian Arts and Learning) concerning most of the wonderful Phanomena of that extravagant Metal, plainly fhews that there were no Traditions of fuch mighty things to be done by it, as the Alchymift's Books are full of. Borrichias therefore recurrs to his old Subterfuge, Agyptian Secrecy, and finds fome doubtful at least, if not fabulous.

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fabulous, Stories of Dædalus and Icarus, and the Poetical Age, which he oppofes to the politive Testimony of Theophrastus. Perhaps my urging the late Difcovery of Mercury, may be thought to be begging the Question, fince fome who have written of the Philosophers-Stone, have taught that their Mercary has no Affinity with common Mercury : Which has led many Perfons to try feveral extravagant Proceffes to find it out. But Eirenaus Philalethes, who is look'd upon as one of the clearest Writers that has ever written upon this Subject, fays exprelly, that (x) Na- (x) Enartural Mercury Philosophically prepared, is thodica trithe Philosophical Menstruum, and the Dif- um Gebri folvent Mercury. les were and

Medicina rum, p.18.

After to long an Enquiry into the Antiquity of this Art of Transmuting Metals, it will be asked perhaps, what may be thought of the Art it felf. I must needs fay, I cannot tell what Judgment to make of it: The Pretences to Infpiration, and that Enthusiastic Cant which run through the Writings of almost all the Alchymists, feem to like Imposture, that one would be tempted to think that it was only a Defign carried on from Age to Age, to delude Mankind; and it is not easie to imagine why God should hear the Prayers of those that defire to be Rich. If, as K 2 they

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they pretend, it was Zeal for the Good of Mankind that made them take fuch Pains to find out fuch noble Medicines as fhould free Men from the most obstinate Difeafes to which our Natures are fubject, why do they not communicate them, and leave the Process in Writing plainly to Posterity, if they are afraid of Danger for themfelves ? Concern for the Welfare of Mankind, and affected Secrecy, feem here inconfistent Things: Men of fuch mortified Tempers, and public Spirits, ought not to be concerned, though Gold or Silver were made as common as Lead or Tin, provided that the Elixir which should remove all Difeafes were once known.

> Though these are reasonable Prejudices against the Belief of the Truth of this Operation, yet one can hardly tell how to contradict a Tradition fo general, and

Epistolam de Transmutatione Metallorum ad

(y) Vid. Borrichium fo very well attested (y). So de Ortu & Progressu many Men, methinks, could Chymia, & Morhofii not have cheated the World fuccefsfully for fo many Ages, Joelem Langelottum. if fome had not been fincere : And, to use a Proverb in their

> own way, So much Smoak could scarce have lasted so long without some Fire. Till the Seminal Principles from which Metals are compounded are perfectly known, the

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the Poffibility of the Operation cannot be difproved : Which Principles, as all other Real Effences of Things, are concealed from us. But as a wife Man cannot, perhaps, without Rafhness disbelieve what is fo confidently afferted, fo he ought not to fpend much Time and Coft about Trying whether it will fucceed, till fome of the Adepti shall be fo kind as to give him the Receipt. io // lo noturini

By what has been faid, it is evident, what Opinion one ought to have of the Chymical Skill of the Ancient Ægyptians: Though it is most probable that the Art owes its Original to them from whom it receives its Name: But this Original is much too late to do Sir William Temple's Hypothefis any Service.

But it is high time to leave the Egyptian Phylic, and therefore I shall only add One or Two Instances of their Skill in Anatomy, and so pass on. Gellius (z) and (z) Nost. Attic. Lib. Macrobius (a) observe ; the one from X. cap. 10. Appion, who wrote of the Ægyptians; (a) saturthe other from the Ægyptian Priests them. nal. 1.7felves, that there is a particular Nerve cap. 13. that goes from the Heart to the Little-Finger of the Left-Hand; for which Reafon they always wore Rings upon that Finger ; and the Priefts dipped that Finger in their perfumed Ointments : This be-K 3 ing .2191960]0

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(c) Hift. Nat. lib.xi. cap. 37. 17.

(b) Herm. ing ridiculed by Conringius, Borrichius (b) affures us, that he always found fomething to countenance this Obfervation, upon cutting of his Nails to the quick. Pliny (c) and Cenforinus (d) give this following Reason from Dioscorides the Aftro-(d) DeDie loger, why a Man cannot live above a Natali.cap. Hundred Years, because the Alexandrian Embalmers observed a constant Encrease and Diminution of Weight of the Hearts of those found Perfons whom they opened, whereby they judged of their Age. They found that the Hearts of Infants of a Year old weighed two Drachms, and this Weight encreafed Annually by two Drachms every Year, till Men came to the Age of Fifty Years : At which time they as gradually decreafed till they came to an Hundred, when, for want of a Heart, they must necessarily die.

To thefe Two Inftances of the Criticalneß of Ægyptian Anatomy, I shall add one of their Curiosity in Natural Enquiries; and that is, their Knowledge of the Caufe of the Annual Overflowing of the Nile. This, which was the conftant Wonder of the Old World, was a Phænomenon feldom over-looked by the Greek Philosophers : Seven of whofe Opinions are reckoned up by Plutarch, in the First Chapter of the Fourth Book of his Opinions of the Philosophers.

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losophers. If Curiofity generally attends a Defire of Knowledge, and grows along with it, then the Ægyptian Priests were inexcufably negligent, that they did not very early know that the Swelling of the Nile proceeded from the Rains that fell in Æthiopia, which raising the River at certain Seafons, made that Overflowing of the Flats of Ægypt. One would think that in Selostris's Time the Ægytian Priests had Accefs enough into Æthiopia; and whoever had once been in that Countrey, could have refolved that Problem, without any Philosophy. It was known indeed in Plato's Time, for then the Priefts told it to Eudoxus; but Thales, Democritus, and Herodotus, who had all enquired of the Ægyptians, give such uncouth Reafons, as fhew that they only fpoke by guefs. Thales thinks that the Etefian Winds blew at that Time of the Year against the Mouths of the River, fo that the fresh Water finding no Vent, was beaten back upon the Land. Democritus fuppofes that the Northern Snows being melted by the Summer Heats, are drawn up in Vapours into the Air; which Vapours circulating towards the South, are, by the Coldness of the Etefian Winds, condenfed into Rain, by which the Nile is raifed. Herodotus thinks that an equal K 4 Quan-

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Quantity of Water comes from the Fountains in Summer and Winter, only in Summer there are greater Quantities of Water drawn up by the Sun, and in Winter lefs, and fo by confequence all that time it overflowed. Democritus's Opinion of the Phænomenon feems not amifs, though his Hypothesis of the Cause of it is wrong in all probability; yet it is plain, That Platarch did not believe it to be the fame with that which the Ægyptian Priefts gave to Eudoxus, which is the only true one, becaufe he fets them both down apart. The Caufe of this wonderful Phænomenon could not be pretended to be a Secret ; no Honour could be got by concealing a Thing, the pretended Ignorance whereof was rather a Difgrace. Thole Ægyptian Priests, whose Business it was to gather Knowledge, must have had an extraordinary Love for a Sedentary Life, or have been averse to inform themselves from others, more than the reft of Mankind, who would not be at the Pains either to learn what Sefostris's Soldiers could have told them, or to go CC or CCC Miles Southward to fearch for that, which they muse, certainly have often reasoned about, if they were fuch Philosophers as they pretended to be, and other believes

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Nay, by the Curiofity of the Greeks, we are fure they did reason about it ; they thought it as much a Wonder as we can do now; rather more, becaufe they knew of no other Rivers that overflow at periodical Seafons like it, as fome are now known to do in other Parts of Africa, and the East-Indies.

Upon the whole Matter, after a particular Search into the whole Extent of Ægyptian Learning, there feems to be no Reafon to give the Agyptians the Preeminence in point of Knowledge above all Mankind. However, confidering the great Labour which is requisite to form the First Notions of any part of Learning, they deferve great Applause for what they difcovered, and ought to have proportionable Grains of Allowance for what they left unfinished : Wherefore, when the Holy Scriptures (e) affure us, that (e) Ads Mofes was skill'd in all the Learning of vii. 22. the Agyptians, they give him the greatest Character for Humane Knowledge that could then be given to any Man. The Agyptian Performances in Architecture were exceedingly wonderful, (f) and the (f) via. Character which Hadrian the Emperor Herodote Euterpen. gives them, that they found Employments for all forts of Perfons, the Blind, the Lame, the Gouty, as well as the Strong

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Strong and Healthy, fhews that it was natural to the Ægyptians to be always busied about something useful. The Art of Brewing Mault-Drinks was long ago

(g) Hero. ascribed (g) to the Ægyptians as the first dotus: Co. Inventors, for which these Northern Nalumella, tions are not a little beholding to them.

Their Laws have, by those who have (b) Convin taken the greatest Pains (b) to destroy gius in Me. the Reputation of their Learning in other mericâ, things, been acknowledged to be very

wife, and worth going fo far as Pythagoras, Solon and Lycurgus did to fetch them. So that if their Modern Advocates had extolled their Learning with any other Defign than that of Difparaging the Knowledge of the prefent Age, there would have been no Reafon to oppose their Affertions.

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CHAP. XI.

Of the Learning of the Ancient Chaldæans and Arabians.

THE Chaldmans and the Arabs are the People that lie next in SirWilliam Temple's Road. Though it is not eafie to feparate what is Fabulous from what is Genuine in the Antiquities of these Nations, yet we may pronounce with fome Certainty,

(1.) That the Chaldwan Aftronomy could not be very valuable, fince, as we know from Vitruvius, and others, they had not discovered that the Moon is an Opake Body. For which Reafons, poffibly, with feveral others, fome of their Learnedest Champions have confessed, that they believed that the Ancient Chaldæan Observations, were rather Registers of the Phænomena of Heavenly Bodies, after they had appeared, than Predictions of their future Appearance. Whether their Aftronomical Obfervations were ofder than their Monarchy, is uncertain: If they were not, then in Alexander the Great's Time they could not challenge an Antiquity of above D or DC Years. I mention

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mention Alexander, becaufe he is faid to have fent vaft Numbers of Obfervations from Babylon, to his Mafter Aristotle. The Assume Monarchy, of which the Chaldaean might not improperly be called a Branch, pretends, indeed, to great Antiquity : Mighty Things are told of Ninus and Semiramis, who is more than once mentioned by Sir William Temple, in these Essays, for her Victories, and her Skill in Gardening. But these Accounts are, very probably fabulous, for the following Reafons.

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Till the Time of Figlath-Pilefer and Pul, we hear no News of any Affyrian Monarchs in the Jewish History. In Amraphel's Time, who was overthrown by Abraham and his Family, in the Vale of Siddim, the Kings of Chaldæa feem to have been no other than those of Canaan, Captains of Hords, or Heads of Clans : And Amraphel was Tributary to Chedorlaomer King of Elam, whole Kingdom lay to the East of Babylon, beyond the River Tigris. Chushan Rishathaim, King of Mesopotamia, who was overthrown some Ages after by Othoniel the Ifraelitish Judge, does not feem to have been a powerful Prince : It may be faid, indeed, that he was General to some Asyrian Monarch; but that is begging the Quemontaom ftion.

ftion, fince there is nothing which can favour fuch an Affertion in the Book of Judges.

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But when the Affyrians and Babylonians come once to be mentioned in the Jewish Hiftory, they occurr in almost every Page of the Old Testament. There are frequent Accounts of Pul, Tiglath-Pilefer, Shalmanezer, Sennacherib, Esar-haddon, Nebuchadnezzar, Evil-merodach, Belshazzar; and who not? But these Kings lived within a narrow Compass of Time; the oldest of them but a few Ages before Cyrus. This would not fuit with that prodigious Antiquity which they challenged to themfelves. The Truth is, Herodotus, who knew nothing of the Matter, being filent, Ctesias draws up a new Scheme of Hiftory much more pompous; and from him, or rather, perhaps, from Berofus, who was Contemporary with Manetho, and feems to have carried on the fame Defign for Chaldaa, which Manetho undertook for Ægypt, Diodorus Siculus, Pompeius Trogus, Eusebius, Syncellus, and all the Ancients that take notice of the Affyrian Hiftory, have afterwards copied to intebaiqo dww.

Ctefias knew he should be straitned to find Employment for so many Kings for MCCC Years; and so he says, they did little

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little memorable after Semiramis's Time. As if it were probable that a great Empire could lie still for above a M Years; or that no Popular Generals should wrest the Reins out of the Hands of fuch drowzy Masters in all that time. No History but this can give an Instance of a Family that lasted for above a M Years, without any Interruption : And of all its Kings, not one is faid to Reign lefs than XIX, but fome Ly Years. The Healthieft Race that ever was heard of; of whom, in MCCC Years, not one feems to have died an untimely Death. If any Thing can be shewed like this in any other History, Sacred or Profane, it will be easie to believe whatfoever is afferted upon this Morrer, being filent, Grelas draw, Dejdug

If therefore the Chaldwan Learning was no older than their Monarchy, it was of no great standing, if compared with the Ægyptian. The Account of Nebuthadnezzar's Dream, in the II^d Chapter of Daniel, shews the Chaldwan Magic to have been downright Knavery; fince Nebuthadnezzar might reasonably expect that those should tell him what his Dream was, who pretended to interpret it when it was told them; both equally requiring a Super-natural Assistance : Yet there lay their chiefest Strength; or, at least, they

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faid fo : Their other Learning is all loft. However, one can hardly believe that it was ever very great, that confiders how little there remains of real Value, that was learn'd from the *Chaldæans*. The Hiftory of Learning is not fo lamely conveyed to us, but fo much would, in all probability, have efcaped the general Ship-wreck, as that, by what was faved, we might have been able to guess at what was loft.

(2.) That if the Learning of these Ancient Chaldwans came as near that of the Arabs as their Countries did; one may give as good a Judgment of the Extent of the Arabian Learning, as of the Chaldzan. Sir William Temple rightly observes, that Countries little exposed to Invalions, preferve Knowledge better than others' that are perpetually harraffed by a Foreign Enemy; and by confequence, whatfoever Learning the Arabs had, they kept; unlefs we fhould fuppofe that they loft it through Carelefnefs. We never read of any Conquests that pierced into the Heart of Arabia the Happy, Mahomet's Countrey, before the Beginning of the Saracen Empire. It is very ftrange therefore, if, in its Passage through this noble Countrey, inhabited by a fprightly, ingenious People, Learning, like Quick-filver, fhould endung run

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run through, and leave fo few of its Influences behind it. It is certain that the Arabs were not a learned People when they over-fpread Afra: So that when afterwards they translated the Græcian Learning into their own Language, they had but little of their own, which was not taken from those Fountains. Their Astronomy and Astrology was taken from Ptolemee, their Philosophy from Aristotle, their Medics from Galen ; and fo on. Aristotle and Euclid were first translated into Latin, from Arabic Copies; and those Barbarous Translations were the only Elements upon which the Western School-men and Mathematicians built. If. they learn'd any thing confiderable elfewhere, it might be Chymistry and Alchymy from the Ægyptians; unless we should fay that they translated Synchus, or Zofimus, or fome other Gracian Chymilts. foever Learning the Analshad th

Hence it follows, that the Arabs borrowed the greateft part, at leaft, of their Knowledge from the Greeks, though they had much greater Advantages of Communicating with the more Eastern Parts of the World, than either Greeks or Romans ever had. They could have acquainted us with all that was rare and valuable amongst those Ancient Sages. The Saracen Empire

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Empire was under one Head in Almanzor's Time, and was then almost as far extended Eastward as ever afterwards. His Subjects had a free Paffage, from the Tagus to the Ganges ; and being united by the common Bond of the fame Religion, the Brachmans, fome of whom did, in all probability, embrace the Mahometan Faith, would not be fly of revealing what they knew, to their Arabian Masters. By this means, the Learning of the Ægyptians, Chaldæans, Indians, Greeks and Arabs, ran in one common Channel. For feveral Ages, Learning was fo much in fashion amongst them, and they took fuch care to bring it all into their own Language, that fome of the learnedest Jews, Maimonides in particular, wrote in Arabic, as much as in their own Tongue. We might reasonably therefore have expected to have found greater Treasures in the Writings of these learned Mahometans, than ever were discovered before : And yet those that have been conversant with their Books, fay, that there is little to be found amongst them, which any body might not have understood as well as they, if he had carefully studied the Writings of their Græcian Masters. There have been to many Thoufands of Arabic and Perfic MSS. brought over into Europe,

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rope, that our learned Men can make as good, nay, perhaps, a better Judgment of the Extent of their Learning, than can be made, at this diftance, of the Greek. There are vaft Quantities of their Aftronomical Observations in the Bodleian Library, and yet Mr. Greaves and Dr. Edward Bernard, two very able Judges, have given the World no Account of any Thing out of them, which those Arabian Aftronomers did not, or might not have learn'd from Ptolemee's Almagest, if we fet afide their Observations which their Gracian Masters taught them to make ; which, to give them their due, Dr. Bernard commends, as much more valuable than is commonly believed, in a Letter to Dr. Huntingdon, printed in the Philo-*(ophical Transactions, containing their Ob*fervations of the Latitudes of Twenty of the most eminent of the Fixed Stars. We owe, indeed, to them alone the Way of Counting by Ten Cyphers, afcending beyond Ten in a Decuple Proportion; which is of unfpeakable Ufe in Aftronomical and Algebraical Calculations, and indeed. in all Parts of Arithmetic. The Use of Chymistry in Physic, together with some of the most confiderable Chymical Preparations, which have led the Way to most of the late Discoveries that have been

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been made in that Art, and in Natural Philosophy by its means, have been unanimoufly afcribed to the Arabs by those Phyficians that have fludied their Books (i). (i) Vid. Though, in ftrictnefs, the whole Arabian Epift. ad Learning, with all their Inventions, what, Langelorand how great foever they were, may be turns reckoned as Modern, according to Sir William Temple's Computation. But I have in this whole Difpute confined my felf to Moderns, in the ftricteft fence of the word, and have only argued from what has been done by the learned Men of these two last Ages, after the Greeks brought their Learning along with them into Italy, upon the Taking of Constantinople by the Turks. So that the Arabs are Ancients here; and what has been faid already, evidently proves that the Old Arabian Learning, could never be any one of those Fountains from whence the Gracian might have been drawn, and confequently can never be urged as fuch by those who give an Account of the Hiftory of Learning.

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CHAP. XII.

Of the Learning of the Ancient Indians and Chinefes.

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WE are now arrived in our Paffage Eaftward as far as the Indies, where the first Springs of that Learning which afterwards flow'd always Westward, arose. Thither Pythagoras is faid to have gone, and to have fetch'd from thence his celebrated Doctrine of the Transmigration of Souls, which he taught, and is now believed by the Modern Bramines as it was the Opinion of the Brachmans of old.

We have very little if any Account of these Indian Philosophers before Alexander the Great, who extended his Conquefts as far as the River Indus. His Hiftorians acquaint us with a Set of Philosophers in that Countrey, who practifed great Aufterities themselves, and taught others that Wisdom lay in living upon a little, in Abstaining from almost all forts of Natural Pleasures, and Promoting the Prosperity and Welfare of the rest of Mankind. The Description that Strabo gives us of them, out of Megasthenes, Onefa-

Oneficritus and Aristobulus, which is very well Abridged by Sir W. T. is the Fullest and most Authentic that we have. And that the Body of it may be True, is probable from the Accounts of their Succeffors the Bramines, which are given us by Monsieur Bernier, and Abraham Roger, who lived many Years among them, and made it their Business to collect their Opinions with all the Exactness they could.

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The fuperstitious Care which these People take to follow the Cuftoms, and propagate the Opinions of their Ancestors, be they never fo abfurd and fenfelefs, plainly fhews that they would have preferved their Learning with equal Care, had there been any of it to preferve. They keep a Collection of the wife Sayings of one Barthrouherri, which Monfieur Roger has given us a Taft of, but fuch miferable Stuff for the generality, that one cannot read them without finiling at the Simplicity of those that can admire them. They wou'd not shew Monsieur Roger their Book of the Law, which they pretend to be fent from God; but by the Account which his Bramine Doctor gave of it, it is only an abfurd Hiftory of the fabulous Successions of their Deities, and as abfurd a Collection of superstitious Ceremonies. L 3

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monies, by which they were to be worshipped. Their Doctrine of the Transmigration of Souls, which Pythagoras first taught in the West, is a precarious idle Notion, which these befotted Indians do fo blindly believe, that they are afraid of killing a Flea or a Loufe, for fear of diffurbing the Soul of one of their Anceftors. Though at the fame time they fcruple not to force Multitudes of poor filly Women, and fometimes too, full fore against their Wills, to burn themselves alive with their deceased Husbands Bodies, under a Pretence of their being ferviceable to them in another World, though they are far from having any Affurance that their Husbands will there stand in need of them. Can we believe that there is a generous Spirit reliding in a People, who have now for MM or MMM Years placed the highest degrees of Sanctity and Prudence in half-starving themselves, and depriving themfelves of the lawful Conveniencies of Life ? Yet these were the chiefest Employments of the Ancient Brachmans, as they are still of the Modern Bramines.

So that there is Reafon to fear that the Stories of the extraordinary Wifdom of the Ancient Brachmans are in a great measure fabulous, because in the idle and bigotted

bigotted part of the Narrative they do fo particularly agree with the Modern *Bramines*; and allo, because if one confults what the Ancients have recorded of the *Brachman*'s in *Alexander*'s time, which

is all gathered into a Body by Sir Edward Byfhe (k), he will find that the Accounts which come the neareft to the Fountain, have lefs in them of the Romance, (l) and that their Hiftorians have expatiated and flourish'd more, as they were at the greater distance.

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(k) Palladius de Geniibus India, fr Bragmanibus, Edit. Bisei, Lond. 1665.

(1) Let but any Man compare Strabo and Palladius together, and he will fee the difference, though 'tis plain they relate to the fame Time,

For, upon comparing what all those Authors there quoted have faid, I am enclinable to believe, that all we know of the Ancient Brachmans, is due to the Accounts which Alexander's Companions have given us.

But let us enter into Particulars. Sir W.T. tells us, out of Strabo, (m) "That their (m) Lib. "Opinions in Natural Philofophy, were, ^{15.} "that the World was Round; that it had "a Beginning, and wou'd have an End, "but reckoned both by immense Periods "of Time; that the Author of it was a "Spirit, or a Mind that pervaded the "whole Universe, and was diffused through "all the Parts of it; and that they held "the Transfingration of Souls, and some L 4 "used

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" used Discourses of Infernal Mansions, (n) Estay, " in many things like those of Plato." (n) Whether Megasthenes, from whom Strabo takes all this Account, has not made it a little more beautiful than he ought; I very much question, fince Monfieur Ber-(a) Voyages, nier fays, (n) That the Bramines believe, Tom. 3. " That the Earth is Flat, and Triangular, pag. 168. " with feveral Stories, all differing in " Beauty, Perfection and Inhabitants, each " of which is encompassed, they fay, by "its Sea; that one of these Seas is of " Milk, another of Sugar, the third of "Butter, the fourth of Wine, and fo forth: " fo that after one Earth there comes a "Sea, and after a Sea an Earth, and fo " on to feven, beginning from

(p) An Imaginary Mountain, which they place in the midit of the Earth.

(q) The Semi-Gods of the Bramines.

" the midft of these Stories : " That the first Story, which " is at the foot of Someire, " hath Deuta's (q) for its In-" habitants which are very " Perfect ; that the fecond contains " likewife Deuta's, but lefs perfect; and " fo of the reft, still lessening the Per-" fection to the feventh, which, they fay, " is ours, that is, of Men far less Per-" fect than all the Deuta's : And, lastly, "That this whole Mass is fustained "upon the Heads of divers Elephants, "which

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ants, hich " which when they ftir, caufe an Earth-" quake." Upon all this, and abundance more of the like nature in Aftronomy, Anatomy, Medicine, and Phylic's, which feems to be the true Oriental Doctrine, confonant to those noble Difcoveries which are in (r) Monsieur Roger's History (r) Histoire of the Lives and Manners of the Bramines, & des Mo-Monsieur Bernier makes this Remark ; eurs des Bramines. (s) "All these strange Impertinencies, " which I have had the patience to relate, (3) Pag. " have often made me think, that if they " be those famous Sciences of the An-" cient Brachmans of the Indies, very "many have been deceived in the great "Opinion they entertained of them. "For my part, I can hardly believe it, " but that I find the Religion of the In-" dians to be from immemorial Times; " that 'tis written in the Hanscrit Lan-" guage, which cannot but be very an-" cient, fince its Beginning is unknown, " and 'tis a dead Language, not under-"flood but by the Learned; that all " their Books are only written in that " Tongue : all which are as many Marks " of a very great Antiquity." This, by the way, confutes the Opinion of those (t) W.T. his who make the Indian Learning to be all Estay, p. Traditionary; for not only their Re- 17. ligious, but their Profane Knowledge too.

too, is all written in this Hanscrit Dialeft. muds has and lis no

Yet one Notion of these Bramines I cannot but take notice of, becaufe it is a very Philosophical one, and has been with probability flarted and defended by fome of the most curious Anatomists of the prefent Age, who built their Hypothesis upon the latest Discoveries which have been made in that admirable Art : I shall set it down in Monsieur Bernier's words; (u) "The Seeds of Plants and 175, 176. " Animals are not formed anew, but were " contrived in the first Production of the "World, and difpenfed abroad every " where, and mixed in all things; and that " they are not only potentially but actual-" ly the very and entire Plants, and Ani-" mals, though fo fmall, that their Parts " cannot be distinguisht, but when put " into a convenient Womb, and there " nourisht, they extend themselves and " encrease: So that the Seeds of an Apple " and Pear-Tree, are a little, entire, and " perfect Apple and Pear-Tree, having all " its Effential Parts ; And fo the Seeds " of an Horfe, an Elephant, a Man, Gc. " are a little Horfe, a little Elephant, a lit-" tle Man, in which there wants nothing " but the Soul and Nourishment to make " them appear what they are."

(u) Pag.

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This Opinion feems rather to have been maintained by a Leeuwenhoeck, or a Malpighius, than by an Indian, who, as Monfieur Bernier assures us, (w) understands (w) Pag. nothing at all of Anatomy, and can speak nothing upon that Subject but what is im-Had it been the Refult of pertinent. Thought and Meditation, founded upon proper Premises, which must be the Effects of many and repeated Observations, one might justly have looked for, and would infallibly have found many other Notions of equal Subtilty among thefe Bramines ; which though erroneous, (and fo, perhaps, may this be,) yet could not have been made by any but Skilful Men. Such Difcoveries likewife would have obliged us to have entertained a very honourable Notion of the Learning of the Ancient Brachmans; because, though they might have been Modern, in comparison of those Ancient Times, yet they might not alfo, for ought we knew, and confequently might have been challenged to those Ancient Philosophers by their Modern Cham-But when, amidst a vast variety pions. of wild and phantaftical Opinions, a Man meets with one or two which ftand alone by themfelves, without any thing that appears to have raifed or confirmed them, he ought not prefently to conclude, that the

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the Philosophers who maintain them are Wife and Learned Men, though once, perhaps, or twice, Quod neguit Ingenium, Casus fecit.

By this time, I am afraid I shall be thought as Tedious as an Irish Tale-teller, fit only to lull my Reader afleep : But there is but one Stage more left; and though it is a great Way off, yet it may be eafily reached upon Paper, and then will be as eafily difpatched. For China, we are told, is a charming Countrey, and therefore most proper to be thought upon at the End of a tedious Discourse.

Sir William Temple knows very well, that the whole Chinese History depends upon the fole Authority of Martinius, and those Missionaries who published Confucius lately at Paris. Martinius (x) tells his (x) Hift. Reader, that he was obliged to learn Sinic. Pra- Sixty Thousand independent Characters before he could read the Chinese Authors with eafe. This is, without all doubt, an excellent Method to propagate Learning, when Eight or Ten of the best Years of a Man's Life must be spent in learning to Read. The most confiderable Specimen of Chinese Learning that we have, is in the Writings of Confucius ; which, if F. Couplet and his Companions had printed under their own Names, (y) those Rules and

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(y) Pag. 178.

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and Instructions discoursed of with great Compaß of Knowledge, Excellence of Sense, Reach of Wit, illustrated with Elegance of Stile, and Aptness of Similitudes and Examples, would foon have been called an incoherent Rhapfody of Moral Sayings, with which good Sense and tolerable Experience might have furnished any Man, as well as Confucius.

If the Chinefes think every part of Knowledge, but their own Confucian Ethics, ignoble and mechanical, why are the Europæan Miffionaries fo much refpected for their Skill in Medicine and Mathematics ? So much Knowledge in Mathematics as will but just ferve an Almanack-maker, will do their Business. F. Verbiest fays, in a Letter printed some Years fince in the Philosophical Transactions, That the Honours which were paid him in the Emperor's Court, were in a great measure owing to his Teaching the Emperor to find the Time of the Night by the Fixed Stars, and an Aftrolabe : This fhews that the Chinefes were but meanly skilled in these Things ; and it is probable, that those who are ignorant of fuch ordinary Matters, feldom carry their Speculations to a much greater Height.

Martinuus and Trigautius, who lived long in China, were able fully to inform the

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the World of the Extent of the Chinefe Knowledge; and the Pains which Martinius has taken to write the Hiftory, and to state the Geography of that mighty Empire, is a fufficient Indication of his great Willingness to advance its Reputation in Europe. The Chineses are certainly a fagacious and industrious People, and their Skill in many Mechanical Arts fhew them to be fo; fo that if they had ever applied themselves to Learning in good earnest, and that for near fo long a Time, as their Hiftory pretends to, there is no Queftion but we should have heard much more of their Progrefs. And therefore, whatsoever can be said of Chinese Knowledge, can never be of any weight, as long as finall Skill in Phyfic and Mathematics shall be enough to protect the Europæan Miffionaries in a Court where they themfelves are efteemed the greatest Scholars, and honoured accordingly.

But the Chinese Physic is wonderfully commended by Dr. Vossius and Sir Wil-(?) Pag. liam Temple (z): The Physicians excel in 179, 18c. the Knowledge of the Pulse, and of all simple Medicines, and go little further: Neither need they; for in the first, they are so skilful, that they pretend not only to tell by it, how many Hours or Days a fick Man may last; but how many Tears a Man in

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in perfect feeming Health may live, in cafe of no Accident or Violence; and by Simples, they pretend to relieve all Difeafes that Nature will allow to be cured. What this boafted Skill is, may be feen in the little Tracts of the Chinefe Physic, publistle dy Andrew Cleyer (a); but because (a) Specimen Medicine Sinito go through with them, fince they are ca. Frannot very pleasant to read, I shall give a fhort Specimen of them, by which one may judge of the rest.

The most Ancient Chinese Discourse of Physic, entituled, Nuy Kim (b), gives this (b) Ibid. Account of the Production of our Bodies, Pag. 85, and of the Relation of the several Parts, 86, 87. with the Five Elements :

Out of the Eaftern Region arifes the Wind, out of the Wind Wood, or Plants, out of Wood Acidity, from thence the Liver, from the Liver the Nerves, from them the Heart : The Liver is generated the Third in Order, and perfected the Eighth : The Spirits of the Liver, as they relate to the Heaven (the Air) are Wind; as Wood in the Earth, as the Nerves in our Bodies, fo is the Liver in the Limbs : Its Colour is Blue, and its Ule and Action is to move the Nerve : The Eyes are the Windows of the Liver; its Taft is acid, its Paffion or Affection is Anger :

Anger : Anger hurts the Liver, but Sorrow and Compaffion conquer Anger, becaufe Sorrow is the Paffion of the Lungs, and the Lungs are Enemies to the Liver : Wind hurts the Nerves, but Drought, the Quality of the Lungs, conquers Wind : Acidity hurts the Nerves, but Acrimony, or that fharp Taft which is proper to the Lungs, conquers Acidity, or Metal Conquers Wood.

' Out of the Southern Region arifes 'Heat, out of Heat Fire, out of Fire Bit-' ternefs : From it the Heart is generated, ' thence the Blood ; out of Blood comes ' the Spleen, or Earth out of Fire; the ' Heart governs the Tongue ; that which ' is Heat in Heaven, Fire upon Earth, 'Pulfation in the Body, is the Heart in ' the Members : Its Colour is Red, has " the Sound of Laughing ; its Viciflitudes are Joy and Sorrow; the Tongue is its Window, its Taft Bitterness, its Paffion Joy; too much Joy hurts the Heart; ' but Fear, the Paffion of the Reins, which ' are Enemies to the Heart, conquers Joy : 'Heat hurts the Spirits, but Cold conquers Heat : Bitterness hurts the Spirits, but Saltness of the Reins conquers Bitter-'nefs, or Water quenches Fire. The Heart is generated the Second in Order, and is perfected the Seventh.

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' Out of the Middle Region arifeth Moisture; out of that Earth; out of ' Earth Sweetness ; from Sweetness cometh the Spleen, Flesh from that, and the Lungs from Flefh : The Spleen governs the Mouth; that which is Moifture in the Heaven, is Earth in Earth, Flesh in the Body, and the Spleen in the Members : Its Colour is Yellow ; it has the Sound of Singing; its Window is the ' Mouth, its Taft is fweet, its Paffion is much Thoughtfulnefs : Thoughtfulnefs hurts the Spleen, but Anger conquers ' Thoughtfulnefs : Moisture hurts Flesh, but Wind conquers Moifture : Sweetness hurts Flesh, but Acidity conquers Sweetnefs : In a word, Wood conquers Earth, or the Liver the Spleen. The Spleen is generated the Fifth in Order, and is perfected the Tenth.

'Out of the Western Region arises 'Drought: Thence come Metals, from them comes Sharpness, out of that are the Lungs, out of the Lungs comes Skin and Hair, out of Skin and Hair come the Reins; the Lungs govern the Noftrils: That which is Drought in the Heaven (or Air) is Metal in the Earth, 'Hair and Skin in the Body, and Lungs in the Members: Its Colour is Whitish, has the Sound of Weeping; its Win-M 161

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dows are the Noftrils, its Taft is fharp, its Paffion is Sorrow : Sorrow hurts the Lungs, but Joy conquers Sorrow : Heat hurts the Skin and Hair, but the Cold of the Reins conquers Heat : Sharpnefs hurts the Skin and Hair, but Bitternefs conquers Sharpnefs. The Lungs are generated the Fourth in Order, and are perfected the Ninth. Out of the Northern Region arifes

Cold, out of Cold comes Water, thence Saltnefs, thence the Reins, thence the ' Marrow of the Bones, thence the Liver. ' The Reins govern the Ears ; that which is Cold in the Air, Water in the Earth, Bones in the Body, is Reins in the Members : Its Colour is Blackish, has the ' Sound of Sobbing ; its Windows are the Ears, its Taft is Saltnefs, its Paffion is Fear : Fear hurts the Reins, but Thoughtful-' nefs conquers Fear : Cold hurts the Blood, but Drought conquers Cold : Saltness hurts the Blood, but Sweetness conquers Saltnefs. The Reins are generated the First in Order, and perfected the · Sixth.

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(c) Rifum forte plus movebit Europæo, quam plaufum. ibid. pag. 87.

Rifum The Miffionary who fent this Account plus to Cleyer a Phyfician at Batavia, was apao, fraid (c) that it would be thought ridiplauibid. culous by Europæans; which Fear of his feems to have been well grounded. Another

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ther who lived long in China, wrote alfo (d) Handquaquam an Account of the Chinese Notions of the juscipiam Nature and Difference of Pulses, which principia he (d) professes that he would not under- ista princitake to prove by Europæan Principles. tibus pro-One may judge of their Worth by the banda.ibid. pag. 2. following Specimen (e):

' The Chineses divide the Body into pag. 3, 4. • Three Regions : The First is from the Head to the Diaphragm : The Second from thence to the Navel, containing Stomach, Spleen, Liver and Gall, and ' the Third to the Feet, containing the ' Bladder, Ureters, Reins and Guts. To ' thefe Three Regions, they affign Three ' forts of Pulses in each Hand. The uppermoft Pulse is governed by the radical Heat, and is therefore in its own Nature overflowing and great. The 'lowermost is governed by the Radical * Moisture, which lies deeper than the 'reft, and is like a Root to the reft of ' the Branches: The middlemost lies be-'tween them both, partakes equally of * Radical Heat and Moisture, and answers to the middle Region of the Body, as ' the uppermost and lowermost do to ' the other two. By these Three forts of Pulfes, they pretend to examine all forts ' of Acute Diseases, and these also are examined Three feveral Ways : Difeafes M 2 10

piss nostra-(e) Ibid.

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(c) soid.

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' in the Left-Side are shewn by the Pulfes of the Left-Hand, and Difeafes in ' the Right Side by the Pulses of the ' Right.

It would be tedious to dwell any longer upon fuch Notions as thefe, which every Page in Cleyer's Book is full of : The Anatomical Figures annexed to the Tracts, which also were fent out of China, are fo very whimfical, that a Man would almost believe the whole to be a Banter, if these Theories were not agreeable to the occafional Hints that may be found in the Travels of the Millionaries. This, however, does no Prejudice to their Simple Medicines, which may, perhaps, be very admirable, and which a long Experience may have taught the Chineses to apply with great fuccefs; and it is possible that they may fometimes give not unhappy Gueffes in ordinary Cafes, by feeling their Patients Pulses : Still this is little to Physic, as an Art ; and however, the Chineses may be allowed to be excellent Empiricks, as many of the West-Indian Salvages are, yet it cannot be believed that they can be tolerable Philosophers; which, in an Enquiry into the Learning of any Nation, is the first Question that is to be confidered. Acute Directes, and th suff Diffed A fired leveral Ways : Diffeden at

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Thus I have taken a fhort View of the Learning of the Eaft. Sir W.T. is not the only Man who has afferted great things concerning it. Other Men, to strengthen their particular Hypothese, have exalted it as much as he : Of all these, few have taken greater Pains than Dr. Burnet (f), who having given us a (f) Archanew Theory of the Creation and the De- olog. Philoluge, was obliged to examine into the Traditions of the oldeft Nations, especially those which pretended most to ancient Monuments of their own Extraction, and the Origination of Mankind. If his Enquiries have not proved what he particularly defigned they fhould, which was, the attefting to the Truth of his own Hypothefes; yet they have proved an almost univerfal Tradition of the World's being once made out of a Chaos, with many other Points, which do exceedingly ftrengthen our Belief of the Mofaical Hiftory. He ingenuoufly owns, that when once the Bufiness came to downright Reafoning, to raifing Principles, and drawing Conclusions from those Principles, the Greeks went very much beyond their Teachers; and he does as good as confefs, that all the Barbaric Philosophy was either Traditionary or Superstitious. His Authority is of great Moment here, becaufe M 3

cause his Design led him to make an Accurate Enquiry into these Things; which Design he has very carefully executed.

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Now, if the Philosophy of the Eastern Nations was all Traditionary, 'tis plain their other Learning could not be profound. For great Skill in Geometry, Aftronomy, Natural History, the Experimental part of Physic's, or Medicine, will naturally lead Men into Enquiries into the Caufes of the Phænomena which daily Those Enquiries will necessarily occurr. produce Principles and Hypothefes; which Principles and Hypotheses, though for want of fufficient Light, they may be precarious and groundlefs, yea, fometimes, possibly, abfurd and phantastical, yet will evidently fhew, that the Philosophers who devifed them, were Men of Search, and Reafoning, of Knowledge and Experience.

The feveral Hypothefes of Ancient and Modern Philosophers, fince Hypothefes have first been introduced to account for the *Phænomena* of *Nature*, do plainly prove this Matter. The *Aristotelians*, who folve all by a Mixture of the Four Elements, go upon Observations and Experiments, such as they are. The *Ancient Chymists*, who found Salt, Sulphur and Mercury in all Mix'd Bodies, prove (as they think) their

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their Hypothesis by Matter of Fact. So the more Modern ones; fome of whom, compound every thing out of Acids and Alkali's; others join with the Corpufcularians, who folve all by the various Motions of Minute Bodies. Still all these Sects pretend Observation and Experience: and the fucceffive Alteration of their Hypotheles, shews that their Stock of Knowledge did proportionably encreafe. Wherefore, fince this has been the Constant, and is the Natural Method, we ought to conclude, that if the Barbaric Philosophy had been built upon fuch Foundations, it would have produced like Effects.

Whereas Tradition, the Fountain of all their Knowledge, is only the Effect of Memory : And as it fhews, that there is no Inquisitive Genius (the Mother of all Knowledge) in the People who content themfelves with it, fo all Acquiefcence in it is utterly inconfistent with great Progreffes in Natural Learning, of any fort, unlefs, perhaps, we fhould except Abstracted Mathematics; which too, whether they need be excepted, may be justly queftioned.

If, indeed, the Traditions of the East had comprehended a System of Natural Knowledge, had given an Account of the leading Phanomena of the Universe, had, 111

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in fhort, been any thing elfe but bare Memorials, and those short, imperfect and obscure, of what the World once was, and what it should hereafter be, they would be much more valuable for the prefent Purpofe, than any Conclusions made by the exacteft Reasoning possible. They would then, as they ought, be efteemed as Revelations made by Him that made the World, and confequently, could best tell in what Manner, and for what Ends and Purpofes he has created, and does preferve this Planetary System in which we live. But fince this is not pretended to, and if it were, could not be made good, I cannot possibly fee how those who allow the Greeks to have been the chief Advancers of Science as opposed to Tradition amongst the Ancients, can deny that Natural Learning, in every Particular, was carried to a greater height by them, than by any of the Oriental Nations.

It is therefore now high time to leave those Countries, in some of which there seems never to have been any folid Learning originally, and in the rest but the Beginnings of it, to come to Greece, as it flood in the Age of Aristotle, Theophrastus, Euclid, and those other Great Men, who, about the Time of Alexander the Great, and

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and afterwards, made fuch mighty Progreffes in almost all Parts of real Learning. If, upon Enquiry, it shall be found, that a Comparison may be made between these Ancients and the Moderns, upon any Heads wherein Learning is principally concerned, which will not be to the Difadvantage of the latter, then there needs not any thing to be faid further. Whether it can or no, is now to be enquired.

CHAP. XIII.

Of Ancient and Modern Logic and Metaphyfics.

Since all that has been faid in the Second and Third Chapters, concerning the Ethics, Politics, Eloquence and Poefie of the Ancient Græcians, belongs to them in their most flourishing Ages, a great Part of the Subject Matter of this Enquiry has already been dispatched. The remaining Parts of their Knowledge may be reduced to these Four Heads : Logic, Metaphysics, Mathematics and Physiology. Logic is the Art of Reasoning; but by it Men commonly understand the Art of Disputing,

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Difputing, and making Syllogifms ; of Anfwering an Adverfary's Objections dexteroully, and making fuch others as cannot eafily be evaded : In fhort, of making a plaufible Defence, or flarting probable Objections, for or against any Thing. As this is taught in the Schools, it is certainly owing to the Ancients : Aristotle's Organum is the great Text by which Modern Logicians have framed their Systems; and nothing, perhaps, can be devifed more fubtile in that captious Art (g), than the Sophifms of the Ancient Stoics. But as Logic is truly the Art of Reasoning justly, fo as not only to be able to explain our own Notions, and prove our own Affertions, clearly and diffinctly, but to carry our Speculations further than other Men have carried theirs, upon the fame Arguments; it has not only been much cultivated by Modern Philosophers, but as far purfued as ever it was by the Ancients : For hereby have the late Enquiries been made into Physical, Metaphyfical and Mathematical Matters, the Extent whereof is hereafter to be examined. Hereby the Ancient Mathematicians made their Discoveries, and when they had done, they concealed their Art ; for, though we have many noble Propositions of theirs, yet we have few Hints how they found

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found them out; fince the Knowledge of the fore-going Books in Euclid's Elements is neceffary to explain the Subfequent, but is of little or no use to help us to find out any Propositions in the subsequent Books, (which are not immediate Corollaries from what went before) in cafe those Books had been loft. Whether the Moderns have been deficient in this noble Part of Logic, may be feen by those who will compare Des Cartes's Discourse of Method, Mr. Lock's Effay of Humane Understanding, and Tschirnbaus's Medicina Mentis, , with what we have of the Ancients concerning the Art of Thinking. Such a Comparison would not be to the Difadvantage of those Modern Authors; for, though it may be pretended, that their Thoughts and Discoveries are not entirely new in themfelves, yet to us, at least, they are fo, fince they are not immediately owing to ancient Affiftances, but to their own Strength of Thinking, and Force of Genius. And fince this Art is, indeed, the Foundation of all Knowledge, I ought to take notice, that my Lord Bacon and Des Cartes were the two Great Men, who both found fault with the Logic of the Schools, as infufficient of it felf for the great Defign of Logic, which is the Advancement of real Learning; and got

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got Authority enough to perfuade the World, in a very great degree, that other Methods must be taken, besides making Syllogisms, and ranking the Sorts of Things under Predicaments and Predicables, by those who would go much farther than their Predecessors went before them. The true Ufe of the common Logic, being rather to explain what we know already, and to detect the Fallacies of our Adversaries, than to find that out, of which we before were ignorant. So that the Moderns have enlarged its Bottom; and by adding that Defideratum which the Ancients either did not perfectly know, or, which is worfe, did invidioully conceal, namely, the Method of Discovering Unknown Truths, as Monsieur Tschirnhaus calls it, have, if not made it perfect, yet put it into fuch a Posture, as that future Industry may very happily compleat it.

Metaphylics is properly that Science which teaches us those Things that are out of the Sphere of Matter and Motion, and is conversant about God, and Spirits, and Incorporeal Substances. Of these Things Plato and his Disciples wrote a great deal : They plainly faw, that something beyond Matter was requisite to create and preferve the August Frame of the

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the World. If we abstract from Revelation, the Cartefians discourse more intelligibly concerning them, than any of the Ancients. So that tho' very many of their particular Notions, as also of F. Mallebranche's, M. Poyret's, and other Modern Metaphyficians, are justly liable to Exception, yet the main Foundations upon which they reason, are, for the most part, real; and fo, by confequence, the Superstructures are not entirely fantastical : And therefore they afford a vaft Number of Hints to those who love to apply their Thoughts that way, which are uleful to enlarge Men's Understandings, and to guide their Manners. This, which is strictly true of the Modern Metaphylics, is as much as can be faid of the Ancient : And becaufe a Comparison cannot be made without reading their feveral Writings, the fureft way to try the Truth of this Proposition, will be to read Plato and his Commentators; and along with them, Des Cartes's Meditations, Velthuystus de Initiis primæ Philosophiæ, Mallebranche's Recherche de la Verité, Poyret's Cogitationes de Deo, and Mr. Lock's Esfay of Humane Understanding, already mentioned. This may be done, without undervaluing what the Ancients wrote upon these noble Subjects : And the Question is

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is not, Whether they were Great Men? But, Whether the Moderns have faid any thing upon these Matters, without Copying out of other Men's Writings? Which, unless we will do them Wrong, we are bound to fay they have.

CHAP. XIV.

Of Ancient and Modern Geometry and Arithmetic.

N the Method which I fet to my felf in these Reflections, I chose to begin with an Enquiry into those Sciences whose Extent is more liable to be contested, and fo onwards, to those in which the Controversie may more easily be determined. Monsieur Perrault, who has not finished his Parallel, that I know of, took it for granted, that if the Prize were allowed to the Moderns in Eloquence, in Poesie, in Architecture, in Painting, and in Statuary, the Caufe would be given up in every thing elfe; and he, as the declared Advocate for the Moderns, might go on triumphantly with all the reft. Wherein, poffibly, he was not, in the main, much mistaken.

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ftaken. How he intends to manage the remaining Part of his *Parallel*, I know not. I fhall begin with *Abstracted Mathematics*; both because all its Propositions are of Eternal Truth, and besides, are the Genuine Foundations upon which all real *Physiology* must be built.

The Method which I shall follow is this: (1.) I shall enquire into the State of Ancient and Modern Mathematics, without any particular Application of the Properties of the feveral Lines and Numbers, Surfaces and Solids, to Phyfical Things. (2.) I shall enquire what New Instruments have been invented, or Old ones improved, by which the Knowledge of Nature of any fort has been, or may be, further enlarged. (3.) I shall enquire whether any Improvements have been actually made of Natural History, and of any Physico-Mathematical or Physical Sciences, such as Astronomy, Music, Optics, Medics, and the like. (4.) From all this, I shall endeavour to pass a Judgment upon the Ancient and Modern Ways of Philosophizing concerning Nature in general, and its principal Phanomena, or Appearances.

I begin with Geometry and Arithmetic, because they are general Instruments whereby we come to the Knowledge of many of the abstruses Things in Nature ; fince,

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fince, as *Plato* faid of old, *God always Geo*metrizes in all his Works. That this Comparifon might be the more exact, I defired my Learned and Worthy Friend, Mr. John *Craig*, to give me his Thoughts upon this Matter : His own learned Writings upon the most difficult Parts of *Geometry*, for fuch are the *Quadratures of Curve Lines*, will be fufficient Vouchers for his Skill in these Things. I shall fet down what he fays, in his own Words :

If we take a fhort View of the Geometry of the Ancients, it appears, that they confidered no Lines, except Streight Lines, the Circle, and the Conic Sections: " As for the Spiral, the Quadratrix, the the Conchoid, the Ciffoid, and a few others, they made little or no Account of them. It is true, they have given us many excellent and uleful Theorems concerning the Properties of these others, but far fhort of what has been difcovered fince. Thus, to inftance in the Quadrature of the Circle, which did fo much excercife and perplex the Thoughts of the Ancients; How imperfect is that of Archimedes, in comparison of that exhibited by Van Ceulen ? And every body knows how this is exceeded by the later " Performances of Mr. Newton, and Monsieur Leibnitz. Archimedes, with a great deal

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deal of Labour, has given us the exact Quadrature of the Parabola; but the Recification of the Parabolic Line, depending on the Quadrature of the Hyperbola, is the Invention of this laft Age. The rare Properties of the Conic Sections, in the Reflexion and Refraction of Light, are the undoubted Difcoveries of theie later Times. It were cafie to give more Infances of this nature, but these are fufficient to shew how far the Modern Mathematicians have out-done the Ancients, in difcovering the nobleft and ufefulleft Theorems, even of those few Figures which they chiefly confidered.

' But all this is nothing, in comparison of that boundless Extent which the Mo-' dern Mathematicians have carried Geo-' metry on to: Which confifts in their 'receiving into it all the Curve Lines in 'Nature, together with the Area's and ' Solids that refult from them ; by diftinguishing them into certain Kinds and Orders; by giving general Methods of ' describing them, of determining their ' Tangents, their Lengths, their Area's, and ' the Solids made by the Rotation of them ' about their Axes. Add to all this, the general Methods that have been invented of late for finding the Properties of a great Number of these Curves, for the Advance-N

'Advancement of Optics, Mechanics, and other Parts of Philafophy : And let any Man of Senfe give the Preference to the Ancient Geometry if he can t no guid ' That the Ancients had general Me-' thods of Constructing all plain Problems by a fireight Line and a Circle, as also all Solid Problems by the help of a Conic Section, is most certain. But it is as certain that here they hopped, and could go no further, becaufe they would not receive any Order of Curves beyond the Conic Sections, upon some nice Scrupulofity in multiplying the Number of the Postulata, requisite to the describing of them : Whereas the Modern Geometers, particularly the Renowned Des Cartes, ' have given general Rules for Construct-'ing all Problems of the Vth. or VIth. Degree. Which Method, if rightly underitood, is applicable to all Problems of any Superior Order of the share ' How deficient the Geometry of the Ancients was in that Part which related

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and ents was in that Part which related
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the Account that Pappus gives us of that
Queftion, about which Euclid and Apollonius made fo many ineffectual Attempts:
The Solution whereof we owe entirely
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to Mr. Ifaac Newton (b). For it is eviedent, that Des Cartes miftook the true
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'Intent of the Ancients in this Matter. 'So that the Loca Solida is now one of 'the perfecteft Parts of Geometry that 'we have, which before was one of the 'most confused and defective.

' From comparing the Ancient and 'Modern Geometry, I proceed to the Comparison of those Arts to which we owe the Improvements both of the one and the other. These are chiefly Two, Algebra, and the Method of Indivifibles. As to the latter of these, I shall not stand to enquire whether Cavallerius was the ' first Inventor, or only the Restorer of it. ' I know Dr. Wallis (i) is of Opinion, that (i) Hift. it is nothing but the Ancients Method of p. 285. " Exhauftions, a little difguifed. It is e-'nough for your Purpole, that by the ' help of Cavallerius's Method, Geometry ' has been more promoted in this last Age, ' than it was in all the Ages before. It ' not only affords us neat and fhort Demonstrations, but shews us how to find out the abstruseft Theorems in Geometry. ' So that there has hardly been any confiderable Improvement of late, which ' does not owe its Rife to it ; as any Man ' may fee, that confiders the Works of ' Cartes, Fermat, Van Heuraet, Huygens, ' Neil, Wallis, Barrow, Mercator, Leibnitz, and Newton. Archimedes's Propositions of N_2

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of the Properties of a Sphere, and a Cylinder, are fome of the eafieft Examples
of this Method. How vaftly more curious and more ufeful Theorems have
been fince added to Geometry, is
known to every one that is converfant
in the afore-mentioned Authors; efpecially Mr. Newton, Leibnitz, and Huygens:
To inftance in Particulars, were to transcribe their whole Books and Treatifes.

' Let us, in the next place, compare the Ancient and Modern Algebra. That ' the Ancients had some kind of Algebra ' like unto ours, is the Opinion of feveral ' learned Writers of late : And it is evident from the Seven remaining Books of ' Diophantus, that it was brought to a confiderable Length in his Time. But how infinitely short this was of that Algebra which we now have, fince Vieta's Time, will appear to any one that confiders the different Process of both. For; tho' Diophantus has given us the Solution of a great many hard and knotty Arithmetical Problems, yet the last Step of his Refolution ferves only for one particular Example of each Problem : So that for every new Example of the fame Queftion, there must be a new Process made of the whole Analysis. Whereas, by our • Modern

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'Modern Algebra, the Analysis of any one Cafe gives a general Canon for all the infinite Cafes of each Problem ; whereby we difcover many curious ' Theorems about the Properties of Numbers, not to be attained by Diophantus's Method; this being the peculiar Advantage of Specious Algebra, first introduced by Vieta, and wonderfully promoted by feveral worthy Mathematicians fince. Befide this intolerable Imperfection of the Ancient Algebra, uled by Diophantus, which required as many different Operations as the Problem had different Examples, that is, infinite : all which are included in one general Solution by the Modern Algebra; there is this great Defect in it, that in Undetermined Questions, which are capable of innumerable Solutions, Diophantus's Algebra can feldom find any more than one; whereas, by the Modern Algebra, we can find innumerable, fometimes all in one Analyfis; tho' in many Problems we are obliged to re-iterate the Operation for every new Answer. This is fufficient to let you fee, that (even in the Literal Sence) our Algebra does infinitely exceed that of the Ancients. Nor does the Excellency of our Algebra appear lefs in the great Improvements of Geome-

Geometry. The reducing all Problems to Analytical Terms, has given Rife to those many excellent Methods whereby we have advanced Geometry infinitely beyoud the Limits alligned to it by the Ancients. To this we owe, (1.) The Expreffing all Curves by Equations, whereby we have a View of their Order, proceeding gradually on in infinitum. (12.) The Method of Constructing all Problems of any Affignable Dimension ; whereas the Ancients never exceeded the Third. Nay, from the Account which Pappus gives us of the afore-mentioned Queftion, it is evident, that the Ancients could go no further than Cubic Equations : For he fays exprelly, they knew not what to make of the continual Multiplication of any Number of Lines more than Three; they had no Notion of it. (3.) The Method of Meafuring the Area's of many Infinities of Curvilinear Spaces; whereas Archimedes laboured with great Difficulty, and wrote a particular Treatife of the Quadrature of only one (k), which is the fimplest and easiest in Nature. (4.) The Method of Determining the Tangents of all Geome-' tric Curve Lines ; whereas the Ancients went no further than in Determining ' the Tangents of the Circle and Conic in by Marine ' Sections. -smost *

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Sections. (5.) The Method of Determining the Lengths of an infinite Number of Curves; whereas the Ancients could never measure the Length of one. If I should descend to Particulars, the Time would fail me. As our Algebra, to also our Common Arithmetic is prodigiously more perfect than theirs; of which, Decimal Arithmetic and Logarithms are so evident a Proof, that I need fay no more about it.

⁴ I would not be thought, however, ⁴ to have any Defign to fully the Reputa-⁴ tion of those Great Men, Comon, Archi-⁶ medes, Euclid, Apollonius, &c. who, if ⁶ they had lived to enjoy our Affistance, ⁶ as we now do some of theirs, would, ⁶ questionless, have been the greatest Or-⁶ naments of this Age, as they were defer-⁶ vedly the greatest Glory of their own." ⁷ Thus far Mr. Craig.

Those that have the Curiosity to see fome of these Things proved at large, which Mr. Craig has contracted into one View, may be amply fatisfied in Dr. Wallis's History of Algebra, joined with Gerhard Vossius's Discourses De Scientius Mathematicis.

It must not here be forgotten, that Abstracted Mathematical Sciences were exceedingly valued by the ancientest Philo-

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fophers: None, that I know of, expressing a Contempt of them but *Epicurus*, though all did not study them alike. *Plato* is faid to have written over the Door of his Academy, *Let no Man enter here*, who does not understand Geometry. None of all the learned Ancients has been more extolled by other learned Ancients, than Archimedes. So that, if in these Things the Moderns have made fo great a Progress, this affords a convincing Argument, that it was not want of Genius which obliged them to stop at, or to come behind the Ancients in any thing elfe.

CHAP. XV.

a now do tome of theirs, would,

Of several Instruments invented by the Moderns, which have helped to advance Learning.

Having now enquired into the State of Mathematics, as they relate to Lines and Numbers in general, I am next to go to those Sciences which consider them as they are applied to Material Things. But these being of several Sorts, and of a yast Extent, taking in no less than the whole

whole Material World, it ought to be obferved, that they cannot be brought to any great Perfection, without Numbers of Tools, or Arts, which may be of the fame Ufe as Tools, to make the Way plain to feveral Things, which otherwife, without their Help, would be inacceffible.

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Of these Tools, or Instruments, some were anciently invented, and those Inventions were diligently purfued : Others are wholly new. According to their Ules, they may be ranged under these Two General Heads : (1.) Those which are useful to all Parts of Learning, though perhaps not to all alike. (2.) Those which are particularly fubfervient to a Natural Philosopher, and a Mathematician. Under the first Head one may place Printing, Paper of Rags, and Engraving. Under the latter come Telescopes, Microscopes, the Thermometer, the Baroscope, the Air-Pump, Pendulum - Clocks, Chymistry, and Anatomy. All thefe, but the two last, were abfolutely unknown to the Ancient Greeks and Romans. Chymistry was known to the Greeks, and from them carried to the Arabs. Anatomy is, at leaft, as old as Democritus and Hippocrates; and doubtlefs, among the exact Ægyptians, fomething older,

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The Benefit of Printing has been to vaft. that every thing elfe wherein the Moderns have pretended to excell the Ancients, is almost entirely owing to it : And withal, its general Uses are fo obvious, that it would be Time loft to enlarge upon them; but it must be taken notice of, because (1) Pag. 6. Sir William Temple has question'd (1) whether Printing has multiplied Books, or only the Copies of them ; from whence he concludes, that we are not to suppose that the Ancients had not equal Advantages by the Writings of those that were ancient to them, as we have by the Writings of those that are ancient to us. But he may eafily folve his own Doubt, if he does but reflect upon the Benefit to Learning which arifes from the multiplying Copies of good Books : For though it should be allowed, that there were anciently as many Books as there are now, which is fcarce credible ; yet still the Moderns have hereby a vast Advantage, because, (1.) Books are much cheaper, and fo come into more Hands. (2.) They are much more eafily read : and fo there is no Time loft in poring upon bad Hands, which weary the Readers, and spoil their Eyes. (3.) They can be printed with Indexes, and other neceffary Divisions, which, though they might be made in MSS. yet they would then

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then make them fo voluminous and cumberfome, that not one in forty who now mind Books, because they love Reading, would then apply themfelves to it. (4.) The Notice of new and excellent Books is more easily dispersed. (5.) The Text is hereby better preserved entire, and is not so liable to be corrupted by the Ignorance or Malice of Transcribers; this is of great Moment in Mathematics, where the Alteration of a Letter, or a Cypher, may make a Demonstration unintelligible.

Paper made of Linnen Rags, may, in a larger fence, be reckoned also amongst Modern Inventions; the Improvement of which to the prefent Finenels and Cheapness, is almost of as great Advantage to Learning, as Printing it felf : And if we were, with the Old Greeks and Romans, obliged to Write upon Barks of Plants, Smoothed Wood, Wax or Parchment, we fhould foon think fo; fince Instruments eafily got, even though they should in fome things be inferior to others, do, by making Men's Labours easie and pleasant, exceedingly contribute to encrease their Industry, and excite their Emulation. But to fay more upon these Subjects, would be to abuse Men's Patience, fince these things are to plain, that they need no Proof.

Engraving

Engraving upon Wood, or Copper, is of great Use in all those Parts of Knowledge where the Imagination must be affisted by fenfible Images. For want of this noble Art, the Ancient Books of Natural History, and Mechanical Arts, are almost every where obscure, in many places unintelligible. Mathematical Diagrams, which need only a Ruler and a Pair of Compasses, have been better preferved, and could with more Ease be drawn : But in Anatomy, in Mechanics, in Geography, in all Parts of Natural History, Engraving is fo neceffary, and has been fo very advantageous, that without it, many of those Arts and Sciences would to this hour have received very little Encreafe. For when the Images, the Proportions, and the Distances of those Things wherein a Writer intends to instruct his Reader, are fully and minutely engraven in Prints, it not only faves abundance of Words, by which all Descriptions must of necessity be obfcured, hut it makes those Words which are used, full and clear ; fo that a skilful Reader is thereby enabled to pass an exact Judgment, and can understand his Authors without a Master, which otherwise it would be impossible to do, fo as to be able to difcern all, even the minutest Mistakes and Overfights in their Writings, Engrannig which

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These are general Inftruments, and more or lefs ferviceable to all forts of Learned Men in their feveral Professions and Sciences : Those that follow, are more particular : I shall begin with those that affist the Eye, either to discern Objects that are too far off, or too small.

The Imperfections of Distance are remedied in a great measure by Telescopes, whose chief Use, that comes under our Consideration, is to discern the Stars, and other Celestial Bodies.

To find out the first Inventor of these (1) Diep. forts of Glasses, it will be necessary to 17359 learn who first found out the Properties of Convex and Concave Glaffes in the Refraction of Light. Dr. Plot has collected 2. 700 a great deal concerning F. Bacon, in his Natural History of Oxfordshire; which feems to put it out of doubt, that he knew that great Objects might appear little, and finall Objects appear great ; that distant Objects would feem near, and near Objects feem afar off, by different Applications STANSING THE of Convex and Concave Glaffes ; upon the Credit of which Authorities, Mr. Molineux (m) attributes the Invention of (m) Diop-Spectacles to this learned Friar, the Time tric.p.256. 257, 258, to which their earlieft Ufe may be traced, agreeing

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(n) Borel. de vero Inventore Telefcopii, p. 30. (0) Ibid. p. 35. (p) Ibid. p. 30.

(q) Dioptric. (r) De Scientiis Mathemat. P. 70.

(s) Vide Galilai Nuntium Sidereum primo ni fallor, imprefum, A. D. MDCV111.

agreeing very well with the Time in which he lived ; but how far F. Bacon went, we know not : So that we must go into Holland for the first Inventors of these excellent Instruments, and there they were first found out by one Zacharias Joannides (n), a Spectacle-maker (o) of Middleburgh, in Zeland; in MDXC he (p) prefented a Telescope of Two Glasses to Prince Maurice, and another to Arch-Duke Albert, the former of whom apprehending that they might be of great Ufe in War, defired him to conceal his Secret. For this Reafon, his Name was fo little known, that neither Des Cartes (q) nor Gerhard Vollius (r) had ever heard any thing of him, when they attributed the Invention of Telescopes to Facobus Metius of Alkmaer. However, the Invention taking Air, Galileo Galilei purfued the Hint, and made feveral Telefcopes, with which he made Obfervations upon Heavenly Bodies, that got him immortal Honour. Thereby (s) he discovered Four Planets moving conflantly round Jupiter, from thence usually called his Satellits, which afterwards were observed to have a conftant, regular, and periodical Motion. This Motion is now to exactly known, that Mr. Flamsteed, who is one of the most accurate Observers that ever was,

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was, has been able to calculate Tables of the Eclipfes of the feveral Satellits, according to which, Aftronomers in different Quarters of the World, having Notice of the precise Time when to look for them, have found them to answer to his Predictions, and published their Observations accordingly. This is an effectual Answer to all that Rhapfody which Stubbe (t) has (t) Plus collected in his Brutal Anfwer to Mr. Glan- duced to a vile's Plus Ultra, about the Uncertainty Non plus, of all Obfervations made by Telefcopes ; P. 28, 36. fince it is impossible to calculate the Duration of any Motion justly by fallacious and uncertain Methods. By the Eclipfes of Jupiter's Satellits, Longitudes would foon be exactly determined, if Tubes of any Length could be managed at Sea. (u) But Jupiter is not the only Planet (u) vid. about which Things anciently unknown Philosoph. have been revealed by this noble Inftru- n. 177. ment. The Moon has been difcovered to be an Earth endued with a libratory Motion, of an uneven Surface, which has fomething analogous to Hills and Dales, Plains and Seas ; and a New Geography, (if one may use that Word without a Blunder) with accurate Maps, has been Published by the Great Hevelius (w), and (w) Sele-Improved by Ricciolus (x), by which nograph.] Eclipfes may be observed much more geft. nicely

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nicely than could be done formerly : The Sun has been found to have Spots at fome times; the Planets to move round their Axes; Saturn to have a Luminous Ring round about his Body, which in fome Politions appears like two Handles, as they are commonly called, or large Prominencies on opposite Parts of his Limb, carried along with him, befide Five Planets moving periodically about him, as those others do about Jupiter : The milky Way, to be a Cluster of numberless Stars; the other Parts of the Heaven, to be filled with an incredible Number of Fixed Stars, of which, if Hevelius's Globes are ever published, the World may hope to see a Catalogue. These are some of the remarkable Difcoveries that have been made by Telefcopes : And as New Things have been revealed, fo Old ones have been much more nicely observed, than formerly it was poffible to obferve them.

But I need not enlarge upon particular Proofs of that, which every Aftronomical Book, printed within these \overline{L} Years, is full of; if I should, it would be faid, perhaps, that I had only copied from the French Author of the Plurality of Worlds, so often mentioned already.

As fome Things are too far off, fo others are too finall to be feen without help.

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help: This last Defect is admirably supplied by Microfcopes, Invented by the fame Zacharias Joannides (y); which have been (y) Borelmade useful in Anatomical and Physical En- lus, ubi Ju lus, ubi Juquiries by Malpighius, Leeuwenhoek, Grew, Havers, and several others. The first confiderable Effay to fhew what might be discovered in Nature, by the help of Microscopes, was made by Dr. Hook, in his Micrography; wherein he made various Observations upon very different forts of Bodies. One may eafily imagine what Light they must needs give unto the nicer Mechanism of most kinds of Bodies, when Monfieur Leeuwenkoek has plainly proved, that he could, with his Glaffes, difcern Bodies feveral Millions of times less than a Grain of Sand. This Affertion of his, how incredible foever it may feem to those who are unacquainted with Phyfical Matters, may in all probability be believed, becaufe Dr. Hook, who examined what Leeuwenhoek fays of the little Animals which he difcerned in icory of Water, of which he tells the most wonderful Things, does, in his Microscopium, atteft the Truth of Leeuwenhoek's Obfervations.

Befides these that are of more universal Use, several other *Instruments* have been invented, which have been very ser-O viceable

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viceable to find out the Properties of Natural Bodies; and by which feveral Things of very great moment, utterly unknown to the Ancients, have been detected. As.

(1.) The Thermometer, invented (z) (z) Borellus de Motu by Sanctorius, an eminent Physician of Animalium, Padua. Its immediate Use is, to deter-Part II. mine the feveral Degrees of Heat and Propof. clxxv. Cold; of which our Senfes can give us

but uncertain Notices, because they do not fo much inform us of the State of the Air in it felf, as what its Operations are at that time upon our Bodies. But San-Storius used only Veffels open at each end, which are of fmall Ufe, fince Liquors may rife or fall in the Tubes, as well from the Encrease or Diminution of the Weight of the Air, as of Heat and Cold. That

Thermometrical Thoughts, prefixed to his Hi-Story of Cold.

(b) See his Defect was remedied by Mr. Boyle (a), who fealed up the Liquors in the Tubes, Hermetically, fo that nothing but Heat and Cold could have any Operation upon The Ules to which they have been them. applied, may be feen at large in Mr. Boyle's History of Cold, and the Experiments of the Academy del Cimento.

> (2.) The Baroscope, or Torricellian Experiment, fo called from its Inventor, Evangelista Torricelli, a Florentine Mathematician, who, about the Year MDCXLIII. found

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found that Quick-filver would fland erect in a Tube, above XXVIII Inches from the Surface of other Quick-filver into which the Tube was immerfed, if it was before well purged of Air. This noble Experiment foon convinced the World, that the Air is an actually heavy Body, and gravitates upon every Thing here below. This Gravitation being found unequal at feveral times, Mr. Boyle applied this Infrument to Mechanical Ufes (b), and (b) Philof. fhewed how it might teach us to know n. 9, 10, the Differences and changes of Weather; 11, -- 55. when dry, and when wet ; fince, by a vaft Number of Obfervations, he had learn'd, that in dry Weather the Air drove up the Mercury, and in wet Weather let it fall again ; though never lower than XXVIII Inches, and fcare ever higher than XXXII.

(3.) These Observations, with other Collateral Experiments, induced him to believe that the Air was, in truth, a Springy Body, which expanded or contracted it self in a Reciprocal Proportion, to the Encrease or Lessening of the Compression of the Ambient Bodies. For which he invented an Instrument to draw the Air out of Vessels that were filled with it, by Suction. The first Essays of that kind seem to have been made some Years O 2 before

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before his appeared, by Otto Guerick of Magdebourg : but as he applied them chiefly to the Gravitation of the Air, without taking any notice of its Spring; fo they were very imperfect, when compared to Mr. Boyle's. By this Air-Pump, as it is ufually called, he difcovered abundance of Properties in the Air, before never fulpected to be in it. What they are, either confidered fingly, or in their Operations upon all forts of Bodies, may be feen at large in his Physico-Mechanical Experiments concerning the Weight and Spring of the Air, and in feveral of his other Discourses upon the fame Argument, fome of which are

Vid. Catalogue of Mr. Boyle's Works, at the end of the First Part of the Medicinal Experiments, printed MDCXCII. in Iwelves.

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printed by themfelves, and (c) Numb. 62, 63, 122. Others in the (c) Philosophical Transactions. How far they may be relied upon, appears from this ; That though Hobbes and Linus have taken a great deal of Pains to de-

ftroy Mr. Boyle's Theory, yet they have had few or no Abettors: Whereas the Doctrine of the Weight and Spring of the Air, first made thoroughly intelligible by Mr. Boyle, has universally gained Affent from Philosophers of all Nations who have, for these last XXX Years, busied themfelves about Natural Enquiries.

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(4.) The Invention of Pendulum-Clocks ought here to be remembred, because, it being certain from Aftronomical Principles, and Observations, that the Diurnal Motion of the Earth is not fo exactly Periodical, as that a true Equation of Time can thereby be obtained : By this Instrument, the Measure of the Variation being once adjusted, the true Time of the Earth's Diurnal Motion, can, at all Sea-. fons of the Year, be more exactly known. Its Usefulness in making Aftronomical Obfervations is also very obvious; for they could not anciently be fo minute as they are at present, for want of fuch nice Sub-Divisions of an equable Motion as it affords. The Invention of this noble Inftrument is attributed, by the Publisher of the Experiments of the Academy del Cimento, to Galileo Galilei, who found out fo many excellent Theorems of the Nature and Proportions of the Motions of Projected and Vibrating Bodies. He fays that Galileo first applied the Pendulum to Clockwork ; and that his Son Vincenzio put it in practice in the Year MDCXLIX (d). It (d) Expewas little taken notice of, however, in riments of these Parts, till Monsieur Huygens revived my del Cior invented it a-new; to whom, for that mento, p. Reason, the Glory of finding out this use- 12. Eng. Edit. ful Instrument is commonly attributed.

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Upon this Occasion, I ought not to omit, that great Improvement of Watches, by adding a Second Spring to balance the First, (as the Pendulum in a Clock does the Weights) which also is attributed to Monfieur Huygens, tho' he and Dr. Hook have both contended for the Honour of this useful Invention. It appears by the Philofophical Transactions, and by Dr. Hook's Lectures, that he had a right Notion of this Matter, and that he had made feveral Effays to reduce it to Practice, some Years before any of Monfieur Huygens's Watches were produced ; but that Monfieur Huygens first made Pendalum-Watches (fo they are commonly call'd) that proved thoroughly ferviceable. These will not be difputed to be Modern Inventions, fince the whole Bufinefs of Clocks and

(e) See Dr. Edw. Bernard's Letter to Dr. Huntingdon, about the Latitude of Twenty Fixed Stars, from Arabian Obfervat. Philosoph. Transatt. n. 159.

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to bacor Watches was unknown to all, even the (e) Arabian Antiquity : Their Aftronomers measured their Time by Hour-Glaffes of Water, or Vibrating Strings of feveral Lengths; which would, indeed, ferve

to stasing them, in most cases, to measure Time nicely by, whilft they were observing; though they were of no Ufe upon other Occasions, and even then were liable to great Hazards.

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CHAP. XVI. Of Ancient and Modern Chymistry.

Hymistry, or the Art of Dividing Bodies by Fire, comes next to be confidered. So great Things have thereby been discovered in Nature, that would have been utterly unknown without it, that it may justly be efteemed as one of the chiefest Instruments whereby Real Knowledge has been advanced. It has been cultivated by three forts of Men, for very different Reasons ; by Refiners, Alchymists, and Chymists properly to called. The Refiner's Art, which is older than the Flood, is, in Holy Scripture, ascribed to Tubal-Cain, as its first Inventor (f). The early Use of (f) Gen, Gold and Silver, as Instruments of Ex- iv. 22. change in Trade, and of Copper and Iron for Mechanical Ufes, in the Eaftern Parts, fhews, that Men foon knew how to feparate Metals from their Drofs, to a great degree. And as frequent Purifications are neceffary for that Work, fo we find that the Neceffity of them was long ago commonly known, fince David compared a Righteous Man to Silver Seven times purified in the Fire (g). But though the (g) Pfal. Ancients knew pretty well how to Refine x11.6.

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their Metals, and to Extract them from their Ore's, in common Cafes, where but one fort of Metal lay in the fame Lump, or where the different Metals were eafily feparable ; yet in nicer Cafes, where many different Sorts were blended in the fame Mass, and where the Metal was obstinately mixed in Stones, over which the Fire could have but fmall Power, both which Cafes do not unfrequently occurr, they were often at a loss; and befides, being wholly ignorant of the Ufe of Quick-filver in feparating Metals from their Ore's, and of Aquæ-Fortes, and the Cupel, by which all manner of Metals are with Ease parted from one another, their Work was laborious, bungling, and many times imperfect. Gold, indeed, which is generally found alone, might be thoroughly purified; which Silver could not be, without great Difficulty and Lofs : Whereas now, fince the Property of Quickfilver's incorporating with all Metals but Copper and Iron is univerfally known, every Workman in the Peruvian Mines underftands that when once his Ore is duly prepared, every Particle of the Silver will amalgamate (as the Chymifts call it) with the Mercury, and fo make a Past that gives him all his Metal without any trouble; and if it is mixed with Gold, Aqua-

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Aqua-Regis, will part them ; if with Copper, Aqua-Fortis; if with Lead, the Cupel. Nor ought we to forget that useful Invention of turning Copper into Brass with Lapis Calaminaris, by which its Weight is confiderably augmented, its Luftre heightned, and its Usefulness for many Mechanical Purpofes encreafed.

It must be own'd, that Skill in Fossils, and particularly in Metals, has not been cultivated by the Moderns proportionably with other Parts of Natural History. Yet what a Difference there must arise between their Knowledge and that of the Ancients from these few Things alone, is evident to any Man who has the leaft infight into these Matters. The Ancients were fo grofly ignorant of the commonest Properties of Mercury, that they only knew that it would incorporate with Gold. We know, from Vitruvius and

Pliny, that this Property of Mercury was formerly obferved; and Pliny (b) adds, That every thing swims upon Mercury but Gold ; that only it draws to it felf. And how well they were skill'd in the Specific Weight of Metals, appears from their believing (i)that Lead was beavier, and more ductile

(b) Omnia ei [Mercurio] innatant preter Aurum; id unum ad se trahit. Plin. Nat. Hift. 1. xxxiii. c.6.

(i) Nec pondere aut facilitate materia pralatum eft Aurum cateris metallis, cum sedat per utrumque Plumbo. Plin. Nat. Hift. l. XXXIII. C. 3.

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Aqua-Fortes is afcribed to the Arabs, by (b) Borri- the Learned in these Matters; (k) and the Cupel is notorioully known to be a Modern Invention. So that I think we may boldly compare the Modern Writers of Metals with the best of the Ancients. of whofe Skill in thefe Things Pliny gives us a good Account, whole Writings may be fet against what Georgius Agricola, Alonfo Barba, Lazarus Erckern, and our Countrey-man Webster, have faid upon these Subjects; in whose Writings, Skill in Diftinguishing, Purifying, Separating and Affaying Ore's and Metals, is what is chiefly to be regarded. These Things depend upon Observation and Experience. which is certain, and confequently will admit of comparison, fince it may eafily be decided, whole Trials and Observations of any fort have been the most Exact. It fignifies nothing whole Hypotheles of the Nature, Texture, Growth, and Poffibility of the Transmutation of Metals, be righteft, in the Difpute before us. Men may eternally, and will difpute pro and con about those Things which will, in all probability, lie undetermined, till either we know the Effences of Things, (which, perhaps, are not to be known in this Life,) or till Mankind be furnished with a larger

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a larger ftock of Experiments and Obfervations than yet they are. So that though feveral of the Modern Writers of Metals that might be named, if Show and Oftentation were proper, give very poor Accounts of the Phyfical Nature of Minerals, yet their Experiments and Obfervations are never a whit the lefs valuable ; and others who feem to Philofophize much nearer the Truth, yet are not here to be efteemed Advancers of the Stock of Knowledge upon the fcore of their Hypothefes ; becaufe what is ftill contefted, is not to be given in as Evidence, efpecially when the Caufe does not want it.

I have fpoken already of Alchymy, or the Art of Making Gold; and fo I fhall pais on to the Chymist's Art, which confifts in making fuch Analyfes of Bodies by Fire, or other Agents, Chymically prepared, as may reduce them into more fimple Substances than those out of which they were before compounded. I make a difference between the Chymist and the Refiner; because the Operations of the Chymist are employ'd about making useful Medicines, or Philosophical Experiments; whereas the Disquisitions of the Refiner terminate altogether in finding out ways how to part his Metals from their Ore's, and from one another, and to purifie them from

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from their Drofs. The Difcoveries therefore which have been made by Chymistry properly fo called, are fo much later than those Ages which Sir William Temple contends for, that those who thought they had a great deal to fay for the other Parts of Chymistry, do here give up the Controversie. Borrichius himself owns, that Hippocrates, Aristotle and Galen knew fo little of Chymistry, that they could not fo much as make Rose-Water. Now, though he fays this, with a defign to Disparage their Skill in Phyfic, when compared with the Ægyptian, yet therein he destroys his own Hypothesis; because, in several Places of his Vindication of the Hermetical and Chymical Philosophy and Medicine, against Conringius's Book de Medicina Hermetica, he takes Pains to prove, that the Knowledge of these very Men was originally owing to the Agyptians. But the Thing speaks it felf : The Inward Use of Antimonial, Vitriolic and Mercurial Preparations in Phyfic, was but little known before the Time of Bahlius Valentinus, and Paracelfus: What was ancienter, was taken from the Arabs, who are Moderns against Sir William Temple. (1) They may be looked Prog. Chem. upon as the first Inventors of Chymical Medicine : (1) They first extracted Vinous Spirits from Fermented Liquors ; Not

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Not to mention abundance of other Preparations, which Arnoldus de Villa Nova, Raymund Lully his Scholar, and F. Bacon learned from them. I will not deny but fome Chymical Experiments were very anciently known. Solomon (m) hints at (m) Prov. the Difagreement of Vinegar and Nitre ; XXV. 20. which, though not intelligible of common Nitre, yet as Mr. Boyle (n) found (n)Boyle's by his own Experience, it is certainly true Producible. of Ægyptian Nitre ; which, as being a mical Prinnatural Alkali, will caufe an Ebullition, ciples, P. 30,31. when joined with any Acid Salt.

Some Paffages likewife are produced by Borrichius, to prove that the Ancients underftood fomething of Calcinations, and the Use of Lixiviate Salts: But these things are very few, very imperfect, and occafional. Chymiftry was not effeemed as a diffinct Art; or the Analyfes thereby produced, worthy a Philosopher's notice; though the Industry of later Ages have found them to be fo regular and remarkable, that many Perfons have thought that the Constituent Principles of Mixed Bodies are no other way fo certainly to be found out. Hence have the Hypotheses of the Paracelhans taken their Beginning, who held, that Salt, Sulphur and Mercury were the Active Principles of Composition of all Mixed Bodies. Hence

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Hence feveral others have been led to believe, that the Primary Conftituents of most Bodies were Acid and Alkalizate Salts. Which Hypothefes, though liable (o) Scepti- to many Exceptions, as Mr. Boyle (o) has and Produ. fully proved, are founded upon fuch a cib. of Chy- variety of furprizing Experiments, that mical Prin- those who first started them, were not fo unadvifed, as one that is wholly unacquainted with the Laboratories of the Chymists, might, at first view, suspect. For it is certain, that Five diftinct and tolerably uniform Substances may be drawn from most Vegetable and Animal Substances, by Fire ; Phlegm, Fixed Salt, Oil, Earth, and Spirit, or Volatile Salt diffolved in Phlegm. So that here is a new Field of Knowledge, of which the Ancients had no fort of Notion.

(p) See Usefulness of Experilofopby.

The great and fuccefsful Change hereby made (p) in the Pharmaceutical Part of Mr. Boyle's Physic, shews that these Philosophers, by Fire, have fpent their Time to very good mentalPhi- purpofe. Those Physicians who reason upon Galenical Principles, acknowledge, that in many Cafes, the Tinctures, Extracts, Spirits, Volatile Salts, and Rofins of Vegetables and Animals, are much more efficacious Remedies than the Galenical Preparations of those felf-fame Medicines. Nay, though they are not eafily reconciled

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ciled to Mineral Preparations, because the Ancients not knowing how to feparate them from their grofler Faces, durft feldom apply them to any but Chirurgical Uses; yet they themselves are forced to own, that fome Difeafes are of fo malignant a Nature, that they cannot be dispelled by milder Methods. The Ufe of Mercury in Venereal Diftempers, is fo great, and fo certain, that if there be fuch a Thing as a Specifical Remedy in Nature, it may justly deferve that Title. The Unskilfulnefs of those who have prepared and administred Antimonial Medicines, has made them infamous with many Perfons, though many admirable Cures have been. and are wrought by them, skilfully corrected, every Day. And it is well known, that the Inward Use of Steel has been fo fuccessful, that in many Difeases, where the niceft Remedies feem requifite, whether the Constitution of the Patients, or the Nature of the Diftempers, be confidered, it is, without Fear, made use of ; though its Medicinal Vertues, in these Cafes, have been found out by Chymical Methods.

Upon the whole Matter, it is certain, that here is a new and gainful Acquisition made : The old Galenical Materia Medica is almost as well known, in all probability,

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lity, as ever it was; fince there are fo great Numbers of Receipts preferved in the Writings of the old Phyficians. The Industry of Modern Naturalists has, in most, at least in all material Cases, clearly discovered what those Individual Remedies are, which are there defcribed. So that whatfoever Enlargement is made, is a clear Addition ; efpecially, fince these Minerals and Metals were then as free and common as they are now. Befides, vaft Numbers of Galenical Medicines, Chymically prepared, are lefs naufeous, and equally powerful; which is fo great an Advantage to Physic, that it ought not to be overlooked.

CHAP. XVII.

Of Ancient and Modern Anatomy.

A Natomy is one of the most necessary Arts to open to us Natural Knowledge, of any that was ever thought of. Its Ulefulness to Physicians was very early seen; and the Greeks took great Pains to bring it to Perfection. Some of the first Corn. Cel. Diffectors (q) tried their Skill upon living sum in Pre-Bodies of Men, as well as Brutes. This was

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was fo inhumane and barbarous a Cuftoni, that it was foon left off: And it created fuch an abhorrence in Men's Minds of the Art it felf, that in *Galen's* time, even dead Bodies were feldom opened; and he was often obliged (r) to use Apes, instead of (r) And-Men, which fometimes led him into great tom. Administ. pafa fim.

It may be faid, perhaps, that becaufe there is not an ancient System of Anatomy extant, therefore the Extent of their Knowledge in this Particular cannot be known. But the numerous Anatomical Treatifes of Galen do abundantly fupply that Defect. In his elaborate Work of the Uses of the Parts of Humane Bodies; he gives fo full an Idea of ancient Anatomy, that if no other ancient Book of Anatomy were extant, it alone would be fufficient for this Purpose. He is very large in all his Writings of this kind, in taking Notice of the Opinions of the Anatomists that were ancienter than himself, efpecially when they were mistaken, and had spent much Time and Pains in Opening Bodies of Brutes, of which he fomewhere promifes to write a Comparative Anatomy. So that his Books not only acquaint us with his own Opinions, but alfo with the Reafonings and Difcoveries of Hippocrates, Aristotle; Herophilus and Erali-

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Erafistratus, whose Names were justly Venerable, for their Skill in these Things. Belides, he never contradicts any body, without appealing to Experience, wherein though he was now and then miftaken, yet he does not write like a Pedant, affirming a thing to be true or falle, upon the Credit of Hippocrates, or Herophilus, but builds his Arguments upon Nature, as far as he knew her. He had an excellent Understanding, and a very piercing Genius; fo that the falfe Ufes which he frequently affigns to feveral Parts, do certainly flew that he did not understand the true Texture of those Parts; because where his Anatomy did not fail him, his Ratiocinations are, generally speaking, exact. Wherefore, in this Particular, his Miftakes instruct us as effectually in the Ancients Ignorance, as his true Notions do in their Knowledge. This will appear at large hereafter, where it will be of mighty ufe to prove, That the Ancients cannot be supposed to have known many of the most eminent Modern Difcoveries; fince if they had known them, they would not have affigned fuch Ules to those Parts, as are not reconcilable to those Discoveries. If Galen had known that the Pancreas had been a Heap of finall Glands, which all cinit into one common Canal, a particular

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cular Juice carried afterwards through that Canal into the Guts, which there meeting with the Bile, goes forward, and affifts it in the making of the Chyle, he would never have faid (s) that Nature made it (s) De Ulu for a Pillow to support the Veins, which lib, v. c. 2. go out of the Liver in that Place, where they divide into feveral Branches, left if they had been without a Reft, they fhould have been hurt by the violent Eruption of the Blood; and this too, without affigning any other Ufe for it.

By Anatomy, there is feldom any thing understood but the Art of laying open the feveral Parts of the Body with a Knife, that to the Relation which they feverally bear each to other may be clearly difeerned. This is generally understood of the containing Parts, Skin, Flesh, Bones, Membranes, Veins, Arteries, Muscles, Tendons, Ligaments, Cartilages, Glands, Bowels, wherein only the Ancients bufied themselves : As for the Examination of the Nature and particular Texture of the contained Parts, Blood, Chyle, Urine, Bile, Serum, Fat, Juices of the Pancreas, Spleen and Nerves, Lympha, Spittle, Marrow of the Bones, Mucilages of the Joints, and the like ; they made very few Experiments, and those too, for want of Chymistry and Microfcopes, very imper-P 2 fect.

Partium,

fect. The Discoveries therefore which have been made in that nobler Part, which are numerous and confiderable, are in a manner wholly owing to later Ages. In the other, a great deal was anciently done, though a great deal more was left for Pofterity to do. gre Ski

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I shall begin with the Body in general. It is certain, that all the great Divisions of the Bones, Muscles, Veins and Arteries, most of the visible Cartilages, Tendons and Ligaments, were exactly known in Galen's time ; the Politions of the Muscles, their feveral Originations, the Infertions of their Tendons, and investing Membranes, were, for the most part, traced with great Nicety and Truth ; the more confpicuous Pairs of Nerves which arife either from the Brain or Spinal Marrow, were well known, and carefully followed; most of the great Branches of the Veins and Arteries, almost all the Bones and Cartilages, with very many Muscles, have ftill old Greek Names imposed upon them by the Old Anatomists, or Latin Names translated from the Greek ones : So that, not only the eafie things, and fuch as are difcernible at first fight, were thoroughly known; but even feveral Particulars, efpecially in the Anatomy of the Nerves, were discovered, which are not obvious without great

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great Care, and a good deal of Practical Skill in Diffecting. So much in general; from which it is evident, that as far as Anatomy is peculiarly useful to a Chirurgeon, to inform him how the Bones, Muscles, Blood-Vessels, Cartilages, Tendons, Ligaments and Membranes, lie in the Limbs, and more confpicuous Parts of the Body, fo far the Ancients went : And here, there is very little that the Moderns have any Right to pretend to, as their own Discovery; tho' any Man that understands these things, must own, That these are the first things which offer themfelves to an Anatomift's View.

Here I shall beg leave to defcend to Particulars, becaufe I have not feen any Comparison made between Ancient and Modern Anatomy, wherein I could acquiesce ; SER (x) whilst some, as Mr. Glanvile (t), and (1) Estay fome others who feem to have copied of Modern Improvefrom him, have allowed the Ancients lefs ments of than was their Due; others, as Vander Ufeful Know-Linden, and Almeloveen (u), have attri- ledge. buted more to them than came to their (")Inventa Share; especially fince (though perhaps Nov. Anit may be a little tedious, yet) it cannot be called a Digreffion.

Hippocrates (w) took the Brain to be Glandulis, (w) De a Gland. His Opinion was nearer to the pag. 418. Truth than any of his Successors; but he S. 7. Edit. P 3 teems den.

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feems to have thought it to be a fimilar Subflance, which it evidently is not. And therefore, when feveral Parts of it were difcovered not to be glandulous, his Opinion was rejected. Plato took it to be Marrow, fuch as nourifhes the Bones; but its Weight and Texture foon destroyed his Notion, fince it finks in Water wherein Marrow fwims; and is hardened by Fire, by which the other is melted. (x) De Usu Galen (x) faw a little farther, and he afferts it to be of a Nervous Substance, only fomething fofter than the Nerves in the Body. Still they believed that the Brain was an Uniform Subflance, and as long as they did fo, they were not like to go very far. The first Anatomist who discovered the true Texture of the Brain, was Archangelus Picolhomineus (y) an Italian, who lived in the last Age. He found Cerebro ad that the Brain properly fo called, and Cerebellum, confift of Two diffinct Subftances, an outer Afh-coloured Subftance, through which the Blood-Veffels, which lie under the Pia Mater in innumerable Folds and Windings, are diffeminated; and an inner every where united to it, of a Nervous Nature, that joins this Bark (as it is usually call'd) to the Medulla Oblongata, which is the Original of all the Pairs of Nerves that illue from the Brain, and

Partium, lib. vill. cap. 6.

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() Malpighius Epist. de Fracassatum, p.2.

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and of the Spinal Marrow, and lies under the Brain and Cerebellum. After him, Dr. Willis (2) was to very exact, that he (3) Anat. traced this Medullar Substance through all Cerebri. its Infertions into the Cortical, and the Medulla Oblongata, and examined the Rifes of all the Nerves, and went along with them into every Part of the Body with wonderful Curiofity. Hereby not only the Brain was demonstrably proved to be the Fountain of Senfe and Motion, but alfo by the Courfes of the Nerves, the Manner how every Part of the Body confpires with any others to procure any one particular Motion, was clearly shewn; and thereby it was made plain, even to Sence, that where-ever many Parts joined at once to caufe the fame Motion, that Motion is caufed by Nerves that go into every one of those Parts, which are all struck together. And tho' Vieusfens and du Verney have in many things corrected Dr. Willis's Anatomy of the Nerves ; yet they have ftrengthened his general Hypothefis, even at the time when they discovered his Mistakes, which is the fame thing to our prefent purpofe. Galen (a) indeed, had a right Notion of (a) De this Matter, but he traced only the larger U.P. 1. 8. Pairs of Nerves, fuch as could not elcape c. 4. a good Anatomist.

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But the Manner of the Forming of the

Animal Spirit in the Brain, was wholly

pany of very finall Glandules, which are

all supplied with Blood by Capillary Ar-

teries; and that the Animal Spirit, which

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unknown. In order to the Difcovery (b) Dece. whereof, Malpighius (b), by his Microrebri Corscopes, found that the Cortical Part of the tice. Brain confifts of an innumerable Com-

(c) De Cerebro, pag. 4.

de U. P.

is feparated from the Mass of the Blood in these Glandules, is carried from them into the Medulla Oblongata thorough little Pipes, whereof one belongs to every Gland, whole other End is inferted into the Medulla Oblongata, and that these Numberless Pipes, which in the Brain of fome Fishes look like the Teeth of a fmall Ivory Comb (c), are properly that which all Anatomists after Picolhomineus have called the Corpus Callofum, or the Medullar Part of the Brain. This Difcovery deftroys the Ancient Notions of the Ules of the Ventricles of the Brain. and makes it very probable, that those Cavities are only Sinks to carry off excrementitious Humours, and not Store-Houses of the Animal Spirit : It shews likewife how little they knew of the Brain, who Believed that it was an uni-(d) Galen form Substance. Some of the Ancients difputed (d) whether the Brain were not 1. VIII. C.2. made

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te not mate made to cool the Heart. Now, though these are ridiculed by Galen, fo that their Opinions are not imputable to those who never held them; yet they flew, that these famous Men had examined these things very fuperficially : For no Man makes himfelf ridiculous if he can help it ; and now, fince Mankind are fatisfied, by Ocular Demonstration, that the Brain is the Original of the Nerves, and the Principle of Senfe and Motion, he would be thought out of his Wits, that should doubt of this Primary Use of the Brain; though formerly, when things had not been fo experimentally proved, Men might talk in the dark, and affign fuch Reafons as they could think of, without the Suípicion of being ignorant or impertinent. The Eye is fo very remarkable a Mem-

ber, and has fo many Parts peculiar to it felf, that the Ancients took great Notice of it. They found its Humours, the Watry, Crystalline, and Glassy, and all its Tunicles, and gave a good Defcription of them ; but the Optic Nerve, the Aqueous Ducts which supply the Watry (e) Theo-Humour, and the Veffels which carry ry of vi-Tears were not fufficiently examined. fion. The first was done by Dr. Briggs (e), who Transact. has found, that in the Tunica Retiformis, numb 6. which is contiguous to the Glassy Humour, and Philof. the numb. 147.

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the Filaments of the Optic Nerve there expanded, lie in a most exact and regular Order, all parallel one to another; which when they are united afterwards in the Nerve, are not shuffled confusedly together, but still preferve the fame Order till they come to the Brain. The Crystalline Humour had already been difcovered to be of a Double-Convex Figure, made of Two unequal Segments of Spheres, and not perfectly Spherical, as the Ancients thought. So that this further Difcovery made by Dr. Briggs, flews evidently why all the Parts of the Image are fo diffinctly carried to the Brain, fince every Ray ftrikes upon a feveral Filament of the Optic Nerve ; and all those Strings fo ftruck, are moved equably at the fame time. For want of knowing the Nature and Laws of Refraction, which have been exactly stated by Modern Mathematicians, the Ancients difcourfed very lamely of Vision. This made Galen think that (f) De Usu the Crystalline Humour (f) was the Seat of Vilion, whereas its only Ule is, to refract the Rays; as the common Experiment of a dark Room, with one only Hole to let in Light, plainly proves : For if one puts a Convex Glass within it. fo as to fuffer no light to be let in but thorough that Glass, a most exact Land-skip

Partium, lib. viii. cap. 6.

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of every thing without, in their proper Colours, Heights and Diftances, will be represented upon a Paper placed in the Focus of the Glass: And it is well known, that the fame thing will appear, if the Crystalline Humour taken out of an Oxe's or a Man's Eye, be placed in the Hole, in-Read of the Glass. The Way how the Watry Humour of the Eye, when by Accident loft, may be and is constantly supplied, was first found out and described by Monfieur Nack (g), who discovered (g) De a particular Canal of Water ariling from Dustibus the internal Carotidal Artery, which creep- quofis. ing along the Sclerotic Coat of the Eye, perforates the Cornea near the Pupil, and then branching it felf curioufly about the Iris, enters into and fupplies the Watry Humour. As to the Vellels which moisten the Eye, that it may move freely in its Orbit, the Ancients knew in general, that there were Two (b) Galen Glands in the Corners of the Eyes (b); de U.P. but the Lympheducts, through which the lib.x.c.11. Moifture is conveyed from those Glands, (i) Obserwere not fully traced till Steno (i) and tomica de Briggs (k) described them; fo that there Oris Oculorum or is just the fame difference between our Narium Knowledge and the Ancients in this Par-Valis. ticular, as there is between his Know- (k) Ophledge who is fure there is fome Road or phia. other

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other from this Place to that, and his who knows the whole Courfe, and all the Turnings of the Road, and can defcribe it on a Map.

The Inftruments by which Sounds are conveyed from the Drum to the Auditory Nerves in the inner Cavities of the Ear. were very little, if at all, known to the Ancients. In the First Cavity there are Four finall Bones, the Hammer, the Anvil, the Stirrup, and a small flattish Bone just in the Articulation of the Anvil and the Stirrup. It is now certainly known, that when the Drum is ftruck upon by the external Air, these little Bones, which are as big in an Infant as in adult Perfons, move each other; the Drum moves the Hammer, That the Anvil, That the Stirrup, which opens the Oval Entrance into the Second Cavity : None of thefe Bones were ever mentioned by the Ancients, who only talked of Windings and Turnings within the Os Petrofum, that were covered by the large Membrane of the Drum. Jacobus Carpus, one of the first Restorers of Anatomy in the last Age, found out the Hammer and the Anvil; Realdus Columbus discovered the Stirrup ; and Franciscus Silvius, the little flattish Bone, by him called Os Orbiculare, but mistook its Polition : He thought it

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it had been placed Sideways of the Head 100 of the Stirrup, whereas Monfieur du Verney (1) found that it lies in the Head (1) Traite of the Stirrup, between that and the del' Organe Anvil. The other inner Cavities were Paris, ds are not better understood, the Spiral Bones 1683. ditery of the Cochlea, that are divided into e Ear, Two diffinct Cavities, like Two pair of 10 the Winding-Stairs parallel to one another, re are which turn round the fame Axis, with 18 Ar the Three Semicircular Canals of the La-Bone byrinthus, into which the inner Air enand and ters, and ftrikes upon the fmall Twigs 10WEL of the Auditory Nerves inferted into on br those finall Bones, were things that they which knew fo little of, that they had no Names t Perfor them; and indeed, till Monfieur noves du Verney came, those Mazes were but the negligently, at least unfuccessfully, exarance mined by Moderns, as well as Anthefe cients; it being impossible fo much as he An to form an Idea of what any former gs 201 Anatomists afferted of the wonderful that Mechanism of those little Bones, bene of fore he wrote, if we fet afide Monfieur of the Perrault's (m) Anatomy of those Parts, (m) Estays e lat which came out a Year or two before, de Phynd the who is not near fo exact as Monfieur Part II. ed the elit du Verney.

The other Parts of the Head and Neck, wherein the Old Anatomy was the most defective,

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defective, were the Tongue, as to its Internal Texture ; and the Glands of the Mouth, Jaws and Throat. The Texture of the Tongue was but gueffed at, which occafioned great Difputes concerning the Nature of its Substance, (n) fome thinkum de Lin- ing it to be Glandulous, some Muscular. and some of a peculiar Nature, not to be matched in any other Part of the Body. This therefore Malpighius examined with his Glasses, and discovered, that it was cloathed with a double Membrane; that in the inner Membrane there are abundance of small Papilla, which have extremities of Nerves inferted into them, by which the Tongue difcerns Tafts, and that under that Membrane it is of a Muscular Nature, confisting of numberless Heaps of Fibres, which run all manner of ways, over one another, like 1 Germa a Mat.

The general Uses of the Glands of the Mouth, Jaws and Neck, were anciently known; it was visible that the Mouth was moistened by them, and the Mass of the Spittle supplied from them; and then, having named them from the Places near which they lie, as the Palate, the Jaws, the Tongue, the Ears, the Neck, they went no further; and there was little, if any thing, more done, till Dr. Whar-

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Dr. Wharton and Nicolaus Steno examined thefe Glands. And upon an exact Enquiry, Four feveral Salival Ducts have been difcovered, which from feveral Glands difcharge the Spittle into the Mouth. The first was defcribed by Dr. Wharton (0), (0) Adenonear Forty Years ago; it comes from graph.c.21. the Conglomerate Glands that lie close to the inner fide of the lower Jaw, and difcharges it felf near the middle of the Chin into the Mouth. The Second was found out by Steno (p), who pub- (p) Obserlished his Observations in MDCLXII; this de Oris comes from those Glands that lie near Vasis. the Ears, in the infide of the Cheek, and the outfide of the Upper Jaw. The Third was found out by (q) Thomas Bartholin, (q) Nuck Sialograph. who gave an Account of it in MDCLXXXII. and about the fame time by one Rivinus a German : It arifes from the Glands under the Tongue, and going in a diffinct Canal to the Mouth of Wharton's Duct, there, for the most part, by a common Orifice, opens into the Mouth. The Fourth was difcovered by Monfieur Nuck (r); he found a Gland within the (r) Ibid. Orbit of the Eye, from which, not far from the Mouth of Steno's Duct, Spittle is supplied to the Mouth by a peculiar Canal. Befides thefe, the fame Monfieur Nuck found fome fmaller Glands near

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near the last, but lower down, which, by Four diffinct Pipes, carry fome Spittle into the Mouth; fo careful has Nature been to provide fo many Passages for that necessary and noble Juice, that if fome fhould fail, others might fupply their Want. the second whole the

CHAP. XVIII.

Of the Circulation of the Blood.

de Pulmonibus.

Stalage and

Rom the Head, we are to look into the Thorax, and there to confider the Heart and the Lungs. The Lungs, as most of the other Viscera, were believed to be of a Parenchymous Substance, till (s) Epist. Malpighius found by his Glasses (s) that they confift of innumerable finall Bladders, that open into each other, as far as the outermost; which are covered by the outer Membrane, that incloses the whole Body of the Lungs : And that the small Branches of the Wind-Pipe are all inferted into these Bladders; about every one of which the Veins and Arteries are entwined, in an unconceivable Number of Nets and Mazes; that fo the infpired Air may

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may prefs upon, or mix with, the Mass of Blood, in such small Parcels as the Ancients had no Notion of. The Wind-Pipe also it self is nourished by an Artery that creeps up the Back-side, and accompanies it in all its Branchings : Which was first found out by Frederic Ruysch, a Dutch Profession of Anatomy at Leyden, about Thirty Years ago.

But the great Difcovery that has been made of the Lungs, is, That the whole Mass of Blood is carried out of the Right Ventricle of the Heart, by the Arteria Pulmonaris, called anciently Vena Arteriofa, thorough all the finall Bladders of the Lungs, into the Vena Pulmonaris, (or Arteria Venosa;) and from thence, into the Left Ventricle of the Heart again. So that the Heart is a ftrong Pump, which throws the Blood, let in from the Veins, into the Lungs; and from the Lungs, afterwards, into the Arteries; and this by a constant. rapid Motion, whereby the Blood is driven round feveral times in an Hour. This Difcovery, first made perfectly intelligible by Dr. Harvey, is of fo very great Importance to shew the Communication of all the Humours of the Body, each with other, that as foon as Men were perfectly fatisfied that it was not to be contested, which they were in a few Years, a great many put in for

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for the Prize, unwilling that Dr. Harvey should go away with all the Glory. Vander Linden, who published a most exact Edition of Hippocrates, in Holland, about XXX Years ago, has taken a great deal of Pains to prove that Hippocrates knew the Circulation of the Blood, and that Dr. Harvey only revived it. The Substance of what has

(1) Haggegverav cy Th voow Sia may O, att Th and Fegdapuers TE is ennenirmuers & elastian xivnow. De Morbi, lib.1. §. 30. Edit. Vand.

(4) AUTai myai quaro מישקטאדו, אין כו חטדע עסו בידמו שע מימ דם השועת, TOION agos) TO OKNUG אדםו ש אין למחו שנף גם דע מישקמידני אווי בטמישנטי our atte gaver o avopa-7G. De Corde, §. 5.

(m) Ai orebes dia 78 orina @ xezuntai, Trev-נום, א פינינום א אויאסזי את-פיזטי). אדם נוווה הסאאמל Sachasaves as is auth uir n uia, ofer non). xj I TETEREUTHKEV, SK OLDA, KUXAS Jap Jegunuers, ap-Sti sin supern. De Venis, 9.17.

been faid in this Matter, is this: That Hippocrates speaks (t) in one place, of the Usual and Constant Motion of the Blood : That, in another place, he calls (u) the Veins and Arteries, the Fountains of Humane Nature, the Rivers that water the whole Body, and convey Life; and which, if they be dried up, the Man dies : That. in a third place, he fays, (w) That the Blood-Veffels. which are dispersed over the whole Body, give Spirit, Moisture and Motion, and all Spring from one; which one (Blood-Vessel) has no Beginning, nor no End, that I can find; for where there is a Circle, there is no Beginning. These are the clearest Passages that are produced, to prove, that Hippocrates knew the Circu-

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lation of the Blood; and it it plain from them, that he did believe it as an Hypothefis; that is, in plain English, that he did fuppose the Blood to be carried round the Body by a constant accustomed Motion : But that he did not know what this confant accustomed Motion was, and that he had not found that Course which, in our Age, Dr. Harvey first clearly demonstrated, will appear evident from the following Confiderations. (1.) He fays nothing of the Circulation of the Blood, in his Difcourse of the Heart, where he Anatomizes it as well as he could, and fpeaks of the (x) Ventricles, and the Valves (y), which (x) De are the immediate Inftruments by which Corde, § 4. the Work is done. (2.) He believes that \$.7, 8. the Auricles of the Heart (z) are like Bel-(z) Ibid. lows, which receive the Air to cool the Heart. Now, there are other Ules of them certainly difcovered, fince they affift the Heart in the Receiving of the Blood from the Vena Cava, and the Vena Pulmonaris. This, no Man that knows how the Blood circulates, can be unacquainted with; and accordingly, would have been mentioned by Hippocrates, had he under- (a) Artestood it. (3.) Hippocrates (a) speaks purum fanof Veins, as receiving Blood from the guinem of piritum à corde recipiunt; Vena autem & ipfa à corde sanguinem jumunt, pet quas corpori distribuitur. De Structura Hominis, S. 2.

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Heart, and going from it : Which alfo was the conftant way of Speaking of Galen, and all the Ancients. Now, no Man that can express himself properly, will ever fay, That any Liquors are carried away from any Ciftern, as from a Fountain or Source, through these Canals which, to his Knowledge, convey Liquors to that Ciftern. (4.) Hippocrates fays, the Blood is carried into the Lungs, from the Heart, for the Nourishment of the Lungs; without affigning any other Reafon (b). Corde, §.1c. These seem to be positive Arguments, that Hippocrates knew nothing of this Matter; and accordingly, all his Commentators, Ancient and Modern, before Dr. Harvey, never interpreted the former Passages of the Circulation of the Blood : Neither would Vander Linden, in all probability, if Dr. Harvey had not helped him to the Notion ; which he was then refolved to find in Hippocrates, whom he supposed to be not the Father only, but the Finisher also of the whole Medical Art. It is pretended to by none of the Ancients, or rather their Admirers for them, after Hippocrates. As for Galen, any Man that reads what he fays of the Heart and Lungs, in the Sixth Book of his De Usu Partium, must own, that he does not discourse as if he were acquainted with Modern

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Modern Discoveries ; and therefore it is not so much as pretended that he knew this Recurrent Motion of the Blood. Which also further shews, that if *Hippocrates* did know it, he explained himself so obfcurely, that *Galen* could not understand him ; who, in all probability, understood *Hippocrates*'s Text as well as any of his Commentators, who have written since the *Greek* Tongue, and much more, fince the *Ionic* Dialect has ceased to be a living Language.

Since the Ancients have no Right to fo noble a Difcovery, it may be worth while to enquire, to whom of the Moderns the Glory of it is due; for this is alfo exceedingly contefted. The first Step that was made towards it, was, the finding that the whole Mass of the Blood passes thorough the Lungs, by the Pulmonary Artery and Vein.

The first that I could ever find, who had a diftinct *Idea* of this Matter, was *Michael Servetus*, a *Spanifb* Physician, who was burnt for *Arianifm*, at *Geneva*, near \overline{CXL} Years ago. Well had it been for the *Church* of *Chrift*, if he had wholly confined himfelf to his own Profession ! His Sagacity in this Particular, before so much in the dark, gives us great Reason to believe, that the World might then have had just Cause to Q 3 have

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(c) Vitalia have bleffed his Memory. In a Book (c) of his, entituled, Christianismi Restitutio, prin-Spiritus in finistro cordis ventri. ted in the Year MDLIII. (d) he clearly afferts, that the Blood paffes thorough culo suam Originem the Lungs, from the Left to the Right habet, ju-Ventricle of the Heart; and not thorough vantibus maxime the Partition which divides the two Venpulmonibus tricles, as was at that Time commonad ipfius ly believed. How he introduces it, or generationem. Eft in which of the Six Discourses, into which (piritus tenuis, calo- Servetus divides his Book, it is to be found, ris vi ela- I know not, having never feen the Book boratus, flamy felf. Mr. Charles Bernard, a very learned vo colore, ignea poten- and eminent Chirurgeon of London, who tiâ, ut fit did me the Favour to communicate this quasi ex pu Paflage to me, (let down at length in the viore famguine luci- Margin) which was transcribed out of Serdus vapor : vetus, could inform me no further, only generatur that he had it from a learned Friend of his, ex facta in pulmone who had himfelf copied it from Servetus. mixtione inspirati aëris cum elaborato subtili sanguine, quem dexter ventriculus sinistro communicat. Fit autem communicatio hac non per parietem cordis medium ut zulgo creditur, sed magno artificio à dextro cordis ventriculo, longo per pulmones ductu, agitatur sanguis subtilis; à pulmonibus praparatur, flavus ejicitur, or à vena arteriosa in arteriam ve-

nosam transfunditur; deinde in ipså arterià venosà inspirato aeri miscetur O expiratione à fuligine repurgatur; atque ita tandem à sinistro cordis ventriculo totum mixtum per diastolen attrabitur, apta supellex ut stat spiritus vitalis. Servet. Christian. Restir.

(d) Vid. Sandii Bibliothecam Anti. Trinitariorum, p. 13.

Realdus Columbus, of Cremona, was the next that faid any thing of it, in his Anatomy, printed at Venice, MDLIX. in Folio; and

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and at Paris, in MDLXXII. in Octavo; and (e) Due afterwards elsewhere. There he afferts the infunt cordi fame (e) Circulation thorough the Lungs, h. e. venthat Servetus had done before ; but fays, triculi duo ; that no Man had ever taken notice of it be- à destris fore him, or had written any thing about eft, à siniit : Which fhews that he did not copy from dexter fini-Servetus; unless one should say, that he stro multo Stole the Notion, without mentioning Ser- eft major; vetus's Name ; which is injurious, fince in fanguis adthese Matters the fame thing may be, and est naturavery often is observed by several Persons, lis, ac vitawho never acquainted each other with their fro : illud Discoveries. But Columbus is much more autem ob. particular; (f) for he fays, That the pulcrum eft. Veins lodge the whole Mass of the Blood Jabiltantiam cordis dex-

trum ventriculum ambientem tenuem satis esse, sinistram vero crassam; & boc tum equilibrii causà factum est, tum ne sanguis vitalis, qui tenuissimus est, extra rejudaret. Inter bos ventriculos septum adest, per quod fere omnes existimant sanguini à dextro ad sinistrum aditum patefieri; id ut siat facilius, in transsitu ob vitalium spirituum generationem tenuem reddi : sed longà errant viâ : nam sanguis per arteriosam venam ad pulmonem fertur, ibique attenuatur; deinde cum aëre unà per arteriam venalem ad sinistrum cordis ventriculum defertur; quod nemo bactenus aut animadvertit, aut scriptum rel·quit. Reald. Columb. Anat. lib. vii. p. 325. Edit. Lot.

(f) Idcirco quando dilatatur, sanguinem à cavâ venâ in dextrum ventriculum susception dilatatur, sanguinem à cavâ venâ in dextrum ventriculum susception servit de constant de constant de demittuntur de servit una cum aère in sinistrum : propterea membranæ illæ demittuntur de ingressuit cedunt : nam cum cor coarchatur, hæ clauduntur; ne quod susciperetur per easdem vias retrocedat; eodémque tempore membranæ tum magnæ arteriæ, tum venæ arterios recluduntur, aditimque præbent spirituos sanguini exeunti, qui per universum corpus funditur, sanguinique naturali ad pulmones delato. Res itaque semper babet, cum dilatatur, quas prius memoravimus, recluduntur, clauduntur reliquæ, itáque comperies sanguinem qui in dextrum ventriculum ingressus est, non posse in cavam venam retrocedere. Ibid. pag. 330. Vide quoque lib. xi. pag. 411.

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in the Vena Cava, which carries it into the Heart, whence it cannot return the fame Way that it went; from the Right Ventricle it is thrown into the Lungs by the Pulmonary Artery, where the Valves are fo placed, as to hinder its Return that Way into the Heart, and fo it is thrown into the Left Ventricle, and by the Aorta again, when enliven'd by the Air, diffufed thorough the whole Body.

Some Years after appeared Andreas 118. ac 9 172. Cæsalpinus, who printed his Peripatetical Questions at Venice, in Quarto, in MDLXXI. And afterwards, with his Medical Questions, at the fame Place, in MDXCIII. He is rather more particular than Columbus, especially in examining how Arteries and Veins join at their Extremities ; which he fuppoles to be by opening their Mouths into each other : And he uses the word Circulation in his Peripatetical Questions, from colars which had never been used in that fence MI JOPINIANS before. He also takes notice, that the Blood fwells below the Ligature in £117 19 212-Veins, and urges that in Confirmation of his Opinion. Some Hints of this Matter are likewife to be found in Constantinus Varolius, who printed his Anatomy in the Year MDXCIX.

At last, Dr. William Harvey printed a Discourse on purpose, upon this Subject,

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at Francfort, in MDCXXVIII. This Notion had only been occasionally and flightly treated of by Columbus and Cæsalpinus, who themfelves, in all probability, did not know the Confequence of what they afferted; and therefore it was never applied to other Purpofes, either to fhew the Uses of the other Viscera, or to explain the Natures of Difeafes : Neither, for any thing that appears at this day, had they made fuch numbers of Experiments as were necessary to explain their Doctrine, and to clear it from Opposition. All this Dr. Harvey undertook to do, and with indefatigable Pains traced the vifible Veins and Arteries throughout the Body, in their whole Journey from and to the Heart, fo as to demonstrate, even to the most incredulous, not only that the Blood circulates thorough the Lungs and Heart, but the very Manner how, and the Time in which that great Work is performed. When he had once proved that the Motion of the Blood was fo rapid as we now find it is, then he drew fuch Confequences from it, as shewed that he throughly underftood his Argument, and would leave little, at least as little as he could, to future Industry to discover in that particular Part of Anatomy. This gave him a just Title to the Honour of fo Noble a Difcovery,

covery, fince what his Predeceffors had faid before him, was not enough understood, to form just Notions from their Words. One may also observe how gradually this Discovery, as all abstrule Truths of Humane Difquifition, was explained to the World. Hippocrates first talked of the Ufual Motion of the Blood. Plato faid, That the Heart was the Original of the Veins, and of the Blood, that was carried about every Member of the Body. Aristotle also, somewhere, speaks of a Recurrent Motion of the Blood. Still all this was only Opinion and Belief : It was Rational, and became Men of their Genius's; but, not having as yet been made evident by Experiments, it might as eafily be denied as affirmed. Servetus first faw that the Blood passes thorough the Lungs; Columbus went further, and fhew'd the Uses of the Valves, or Trap-doors of the Heart, which let the Blood in and out of their respective Vessels, but not the self fame Road. Thus the Way was just open when Doctor Harvey came, who built upon the First Foundations : To make his Work yet the easier, the Valves of the Veins, which were discovered by F. Paul the Venetian, had not long before been explained by Fabricius ab Aqua-Pendente, whence the Circulation was yet more clearly demonstrated.

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There was one thing still wanting to compleat this Theory, and that was, the Knowledge how the Veins received that Blood which the Arteries discharged; first it was believed that the Mouths of each fort of Vessels joined into one another : That Opinion was foon laid aside, because it was found that the Capillary Veffels were fo extremely fmall, that it was imposible with the naked Eye to trace them. This put them upon imagining that the Blood ouzes out of the Arteries, and is absorbed by the Veins, whose small Orifices receive it, as it lies in the Fibres of the Muscles, or in the Parenchyma's of the Bowels: Which Opinion has been generally received by most Anatomists fince Dr. Harvey's Time. But Monfieur Leeuwenhoek has lately found in feveral (g) Letter forts of Fishes (g), which were more 65,66. manageable by his Glasses than other Animals, that Arteries and Veins are really continued Syphons varioufly wound about each other towards their Extremities in numberless Mazes, over all the Body : And others have found (b) what (b) Philof, he fays to be very true, in a Water Newt. Transact. So that this Difcovery has passed uncontefted. And fince it has been conftantly found, that Nature follows like Methods in all forts of Animals, where the ufes the

the fame forts of Inftruments, it will always be believed, that the Blood circulates in Men, after the fame Manner as it does in Eels, Perches, Pikes, Carps, Bats, and fome other Creatures, in which Monfieur Leeuwenboek tried it. Though the Ways how it may be visible to the Eye, in Humane Bodies, have not, that I know of, been yet discovered. However, this Visible Circulation of the Blood in these Creatures, effectually removes Sir William Temple's Scruple, who feems unwilling to believe the Circulation of the Blood, because he could not see it : His Words (i) 44,45. are these; (i) Nay, it is disputed whether Harvey's Circulation of the Blood be true or no; for though Reason may seem to favour it more than the contrary Opinion, yet Senfe can very hardly allow it; and to fatisfie Man-.00,20 kind, both these must concurr. Sense therefore here allows it, and that this Senfe might the fooner concurr, Monfieur Leeuwenhoek describes the Method how this Experiment may be tried in his LXVIth. Letter. The Inferences that may be made

from this noble Difcovery are obvious,

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Farther Reflections upon Ancient and Modern Anatomy.

F after this long Enquiry into the First Difcovery of the Circulation of the Blood, it should be found that the Anatomy of the Heart was but flightly known to the Ancients, it will not, I suppose, be a Matter of any great Wonder. The First Opinion which we have of the Texture of the Heart, was that of Hippocrates (k), (k) De That it is a very ftrong Muscle. This, Corde, 5.4. though true, was rejected afterwards, for want of knowing its true Ufe. Its Internal Divisions, its Valves, and larger Vifible Fibres, were well known, and diftinctly described by the Ancients; only they were miftaken in thinking that there is a Communication between the Venand I f m] tricles thorough the Septum, which is now generally known to be an Errour. The Order of the Muscular Fibres of the Heart was not known before Dr. Lower. who difcovered them to be Spiral like a Snail-Shell, as if feveral Skains of Threads of differing Lengths had been wound up into a Bottom of fuch a Shape, hollow, and NULCI

(1) De

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(1) De Motu Animalium, Part II. cap. 5.

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and divided within. By all these Discoveries Alphonfus Borellus (1) was enabled to give such a Solution of all the Appearances of the Motion of the Heart, and of the Blood in the Arteries, upon Mathematical and Mechanical Principles, as will give a more satisfactory Account of the wonderful Methods of Nature, in difpensing Life and Nourishment to every Part of the Body, than all that had ever been written upon these Subjects before those things were found out.

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Below the Midriff are feveral very noble Vifcera : The Stomach, the Liver, the Pancreas or Sweet-bread, the Spleen, the Reins, the Intestines, the Glands of the Mefentery, and the Instruments of Generation of both Sexes; in the Anatomical Knowledge of all which Parts, the Ancients were exceedingly defective.

The Coats of the Stomach have been feparated, and the feveral Fibres of the (m) Phar- middle Coat examined by Dr. Willis (m) maceut.Ra with more Exactness than formerly; he also has been very nice in tracing the Blood-Vessels and Nerves that run amongst the Coats, has evidently shewn that its Inside is covered with a glandulous Coat, whose Glands separate that Mucilage; which both preserves the Fibres from being injured by the Aliments which

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nemi hich which the Stomach receives, and concurrs with the Spittle to further the Digestion there performed; and has given a particular Account of all those feveral Rows of Fibres which compose the mufculous Coat. To which if we add Steno's Difcovery of the Fibres of the Musculous Coat of the Gullet, that they are Spiral in a double Order, one afcending, the other descending, which run contrary Courses, and mutually crofs each other in every Winding; with Dr. Cole's (n) Discovery (n) Philos. of the Nature of the Fibres of the Inte- Transact. flines, that they also move spirally, tho' ". 125. not, perhaps, in a contrary Order, from the beginning of the Duodenum, to the end of the streight Gut, the Anatomy of those Parts seems to be almost compleat.

The great Use of the Stomach and the Guts, is to prepare the Chyle, and then to transmit it thorough the Glands of the Mefentery into the Blood. This the Ancients knew very well ; the Manner how it was done they knew not. Galen (o) (o) De held, that the Mefaraic Veins, as also tiam, 1. 4. those which go from the Stomach to the c. 2,3,4,5. Liver, carry the Chyle thither; which, by the Warmth of the Liver, is put into a Heat, whereby the Fæculencies are separated from the more spirituous Parts, and by

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by their Weight fink to the Bottom. The purer Parts go into the Vena Cava; the Dregs, which are of two forts, Choler and Melancholy, go into feveral Receptacles; the Choler is lodged in the Gall-Bladder, and Porus Bilarius : Melancholy is carried off by the Spleen. The Original of all these Notions, was Ignorance of the Anatomy of all these Parts, as alfo of the conflant Motion of the Blood thorough the Lungs and Heart. Herophilus, who is commended as the ableft Anatomist of Antiquity, found out (p) that there were Veins difperfed quite through the Melentery, as far as the Imall Guts reach, which carried the Chyle from the Intestines into several Glandulous Bodies, and there lodged them. These are the Milky Veins again difcovered by Afellius about L Years ago; and those Glands which Herophilus spoke of, are probably that great Collection of Glands in the Mefentery, that is commonly called the Pancreas Asellii. After Herophilus, none of the Ancients had the Luck to trace the Motions of the Chyle any farther, and fo these Milky Veins were confounded with the Mefaraics, and 'twas commonly believed, That because all Mefaraics carry the Blood from the Intestines into the Liver, therefore they carried Chyle alfo, when

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when there was any Chyle to carry; and hence, probably, it was that the Liver was believed to be the common Work-House of the Blood. But when Afellius had traced the Chyle as far as the great Gland of the Melentery, it was foon found not to lie there. And Pecquet, about XL Years fince, discovered the common Receptacle of the Chyle, whither it is all brought. Thence he also found that it is carried, by particular Veffels, thorough the Thorax, almost as high as the Left Shoulder, and there thrown into the Left Subclavian Vein, and fo directly carried to the Heart. It has also been difcovered, that in his Canal, ufually call'd Ductus Thoracicus, there are numerous Valves, which hinder the Return of the Chyle to the common Receptacle, for that it can be moved forwards, but not backwards.

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Since this Passage of the Chyle has been difcovered, it has been by fome believed, that the Milk is conveyed into the Breafts, by little Veffels, from the Ductus Thoracicus. The whole Oeconomy of that Affair has been particularly described, very lately, by Mr. Nuck, before whole time it was but imperfectly known. He fays therefore, that the Breafts are Heaps of Glands, fupplied with Blood by innumerable Ramifications R

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mifications of the Axillary and Thoracic Arteries; fome of which paffing thorough the Breaft-bone, unite with the Veffels of the opposite Side. These Arteries, which are unconceivably finall, part with the Milk in those small Glands, into small Pipes, four or five of which meeting together, make one fmall Trunk ; of these imall Trunks, the large Pipes, which terminate in the Nipple, are made up; though before they arrive thither, they straiten into fo fmall a compass, that a stiff Hair will just pass thorough. The Nipple, which is a Fibrous Body, has feven or eight, or more Holes, thorough which every Pipe emits its Milk upon Suction ; and left any one of them being ftopp'd, the Milk should stagnate, they all have crofs Paffages into each other at the bottom of the Nipple, where it joins to the Breaft.

The fore-mentioned Difcovery of the Passage of the Chyle, obliged Men to reexamine the Notions which, till then, had generally obtained, concerning the Nature and Ules of the Liver. Hitherto it had been generally believed, that the Blood was made there, and fo difperfed into feveral Parts, for the Ules of the (4) Galen Body, by the Vena Cava. Erafistratus, indeed, supposed (g) that its principal Use 1. IV. C. 13. was, ALTICALION

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was, to separate the Bile, and to lodge it in its proper Vessels: But, for want of farther Light, his Notion could not then be fufficiently proved ; and fo it prefently fell, and was never revived, till Afellius's and Pecquet's Discoveries put it out of doubt. Till Malpighius discovered its Texture by his Glasses, its Nature was very obscure. But he has found out, (1.) That the Substance of the Liver is framed of innumerable Lobules, which are very often of a Cubical Figure, and confift of feveral little Glands, like the Stones of Raifins ; fo that they look like Bunches of Grapes, and are each of them cloathed with a diffinct Membrane. (2.) That the whole Bulk of the Liver confifts of these Grape-stone-like Glands, and of divers forts of Veffels. (3.) That the fmall Branches of the Cava, Porta, and Porus Bilarius, run thorough all, even the least of these Lobules, in an equal Number; and that the Branches of the Porta are as Arteries that convey the Blood to, and the Branches of the Cava are the Veins which carry the Blood from all these little Grape-stone-like Glands. From whence it is plain, that the Liver is a Glandulous Body, with its proper Excretory Veflels, which carry away the Gall that lay before in the Mass of the Blood.

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(r) De U. P. l.v. C. 2. Near the Liver lies the *Pancreas*, which Galen believed (r) to be a Pillow to fupport the Divisions of the Veins, as they go out of the Liver ; and, for what appears at prefent, the Ancients do not feem to have concerned themfelves any further about it. Since, it has been found to be a Glandulous Body, wherein a diffinct Juice is feparated from the Blood; which, by a peculiar Canal, first discovered by *Georgius Wirtfungus*, a *Paduan* Physician, is carried into the *Duodenum*; where meeting with the Bile, and the Aliment just thrown out of the Stomach, affists and promotes the Business of Digestion.

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The Spleen was as little underflood as the Fancreas, and for the fame Reafons : Its Anatomy was unknown, and its Bulk made it very remarkable; fomething therefore was to be faid about it : And what no Body could politively dif-prove, might the easier be either received or contradicted. The most general Opinion was, that the groffer Excrements of the Chyle and Blood were carried off from the Liver, by the Ramus Splenicus, and lodged in the Spleen, as in a common Ciftern : But fince the Circulation of the Blood has been known, it has been found, that the Blood can go from the Spleen to the Liver, but that nothing can return ISQUE back

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back again into the Spleen. And as for its Texture, (s) Malpighius has discover'd, (s) De that the Substance of the Spleen, deducting the numerous Blood-Veffels and Nerves, as alfo the Fibres which arife from its Second Membrane, and which support the other Parts, is made up of innumerable little Cells, like Honey-combs, in which there are vaft Numbers of fmall Glandules, which refemble Bunches of Grapes ; and that these hang upon the Fibres, and are fed by Twigs of Arteries and Nerves, and fend forth the Blood there purged, into the Ramus Splenicus, which carries it into the Liver; to what Purpofe, not yet certainly discovered.

The Use of the Reins is so very conspicuous, that, from Hippocrates's Time, downwards, no Man ever miftook it : But the Mechanism of those wonderful Strainers was wholly unknown, till the fo often mentioned Malpighius (s) found it (t) De Reout. He therefore, by his Glasses, disco-nibus. vered, that the Kidneys are not one uniform Substance, but consist of feveral small Globules, which are all like to many feveral Kidneys, bound about with one common Membrane; and that every Globule has fmall Twigs from the emulgent Arteries, that carry Blood to it; Glands, in which the Urine is strained from it; R 3 Veins, 3111

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Veins, by which the purified Blood is carried off to the Emulgent Veins, thence to go into the Cava; a Pipe, to convey the Urine into the great Bafin in the middle of the Ridney; and a Nipple, towards which feveral of those small Pipes tend. and thorough which the Urine ouzes out of them into the Basin. This clear Account of the Structure of the Reins, has effectually confuted feveral Notions that Men had entertained, of fome Secondary Uses of those Parts; fince hereby it appears, that every Part of the Kidneys is immediately and wholly fubfervient to that fingle Work, of freeing the Blood from its superfluous Serum.

What has been done by Modern Anatomists, towards the Compleating of the Knowledge of the remaining Parts, I shall omit. That the Ancients likwise took Pains about them, is evident from the Writings of Hippocrates, Aristotle and Galen. The Discoveries which have fince been made are so great, that they are, in a manner, undisputed : And the Books which treat of them are so well known, that it will not be suspected that I decline to enlarge upon them, out of a Dread of giving up more to the Ancients in this Particular, than I have done all along.

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The Difcoveries hitherto mention'd, have been of those Parts or Humours of the Body, whole Existence was well enough known to the Ancients. But, befides them, other Humours, with Veffels to separate, contain, and carry them to feveral Parts of the Body, have been taken notice of; of which, in strictness, the Ancients cannot be faid to have had any fort of Knowledge. These are, the Lympha, or Colourless Juice, which is carried to the Chyle and Blood, from feparate Parts of the Body : And the Mucilage of the Joints, which lubricates them, and the Muscles, in their Motions. The Difcovery of the Lympha, which was made about XL Years ago, is contended for by feveral Perfons. Thomas Bartholine, a Dane, and Olaus Rudbeck, a Suede, published their Observations about the same time : And Dr. Jolliffe, an English-Man, shewed the fame to feveral of his Friends, but without publishing any thing concerning them. The Difcoveries being undoubted, and all Three working upon the fame Materials, there feems no reason to deny any of them the Glory of their Inventions. The Thing which they found, was, that there are innumerable fmall, clear Vessels in many Parts of the Body, chiefly in the Lower Belly, which convey a Co-R 4

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a Colourless Juice, either into the common Receptacle of the Chyle, or elfe into the Veins, there to mix with the Blood. The Valves which Frederic Ruysch found and demonstrated in them, about the fame Time, manifeftly shewed, that this is its Road ; because they prove, that the Lympha can go forwards from the Liver, Spleen, Lungs, Glands of the Loins and Neck, or any other Place, whence they arife, towards fome Chyliferous Duct, or Vein; but cannot go back from those Chyliferous Ducts, or Veins, to the Place of their Origination. What this Origination is, was long uncertain, it not being easie to trace the feveral Canals up to their feveral Sources. Steno (u) and Malpighius (w) did, with infinite Labour, find, that abundance of (w) Epist. Lympheducts passed thorough those numerous Conglobate Glands that are difperfed in the Abdomen and Thorax ; which made them think that the Arterious Blood was there purged of its Lympha, that was from thence carried off into its proper Place, by a Vessel of its own. But (x) Adeno- Mr. Nuck has fince (x) found, that the Lympheducts arife immediately from Arteries themfelves; and that many of them are percolated thorough those Conglobate Glands, in their Way to the Receptacle

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ceptacle of the Chyle, or those Veins which receive them. By these, and innumerable other Observations, the Uses of the Glands of the Body have been found out; all agreeing in this one thing, namely, That they leparate the feveral Juices that are difcernible in the Body, from the Mais of the Blood wherein they lay before. From their Texture they have of late been divided into Conglomerate and Conglobate. The Conglomerate Glands confift of many finaller Glands, which lie near one another, covered with one common Membrane, with one or more common Canals, into which the feparated Juice is poured by little Pipes, coming from every finaller Glandule; as in the Liver, the Kidneys, the Pancreas, and Salival Glands of the Mouth. The Conglobate Glands are fingle, often without an Excretory Duct of their own, only perforated by the Lympheducts. Of all which Things, as Effential to the Nature of Glands, the Ancient Anatomists had no fort of Notion.

The Mucilage of the Joints and Muscles was found out by Dr. Havers (y). He (y) offect discovered in every Joint, particular Glands, out of which issues a Mucilaginous Substance, whose Nature he examined by numerous Experiments; which, with

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with the Marrow fupplied by the Bones, always ferves to oil the Wheels, that fo our Joints and Muscles might answer those Ends of Motion, for which Nature defigned them. This was a very uleful Difcovery, fince it makes abundance of Things that were obscure in that part of Anatomy, plain, and facile to be underflood : And, among other Things, it shews the Use of that excellent Oil which is contained in our Bones, and there feparated by proper Strainers, from the Mafs of the Blood; especially, fince, by a nice Examination of the true inward Texture of all the Bones and Cartilages of the Body, he fnew'd how this Oil is communicated to the Mucilage, and fo united, as to perform their Office. And if one compares what Dr. Havers fays of Bones and Cartilages, with what had been faid concerning them before him, his Obfervations about their Frame may well be added to fome of the nobleft of all the former Difcoveries.

These are some of the most remarkable Instances, how far the Knowledge of the Frame of our Bodies has been carried in our Age. Several Observations may be made concerning them, which will be of Use to the present Question. (1.) It is evident, that only the most visible Things were

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were anciently known; fuch alone as might be difcovered without great Nicety. Muscles and Bones are eafily separable; their Length is foon traced, and their Origination prefently found. The fame may be truly faid of large Blood-Veffels, and Nerves : But when they come to be exquifitely fub-divided, when their Smalnels will not fuffer the Eye, much lefs the Hand, to follow them, then the Ancients were constantly at a Loss: For which Reafon, they understood none of the Viscera, to any tolerable degree. (2.) One may perceive, that every new Difcovery ftrengthens what went before ; otherwife the World would foon have heard of it, and the erroneous Theories of fuch Pretenders to new Things would have been exploded and forgotten, unless by here and there a curious Man, that pleafes himfelf with reading obfolete Books. Nullius in Verba is not only the Motto of the ROTAL SOCIETT, but a received Principle among all the Philofophers of the prefent Age : And therefore, when once any new Difcoveries have been examined, and received, we have more Reafon to acquiefce in them, than there was formerly. This is evident in the Circulation of the Blood : Several Veins and Arteries have been found, at least, more

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more exactly traced, fince, than they were in Dr. Harvey's Time. Not one of these Discoveries has ever shewn a fingle Instance of any Artery going to, or of any Vein coming from the Heart. Ligatures have been made of infinite Numbers of Veffels; and the Courfe of all the Animal Juices, in all manner of living Creatures, has thereby been made visible to the naked Eye; and yet not one of these has ever weakened Dr. Harvey's Doctrine. The Pleafure of Deftroying in Matters of this kind, is not much lefs than the Pleafure of Building. And therefore, when we fee that those Books which have been written against fome of the eminentest of these Discoveries, though but a few Years ago, comparatively speaking, are fo far dead, that it is already become a Piece of Learning even to know their Titles, we have fufficient Assurance that those Discoverers, whose Writings out-live Opposition, neither deceive themfelves nor others. So that, whatfoever it might be formerly, yet in this Age, general Confent in Phyfiological Matters, especially after a long Canvals of the Things confented to, is an almost infallible Sign of Truth. (3.) The more Ways are made use of to arrive at any one particular Part of Knowledge, the furer STORE

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furer that Knowledge is, when it appears that these different Methods lend Help each to other. If Malpighius's, or Leeuwenhoek's Glasses had made fuch Difcoveries as Men's Reafon could not have agreed to; if objects had appeared confufed and diforderly in their Microfcopes ; if their Obfervations had contradicted what the naked Eye reveals, then their Verdict had been little worth. But when the Difcoveries made by the Knife and the Microfcope, difagree only as Twi-light and Noon-day, then a Man is fatisfied that the Knowledge which each affords to us, differs only in Degree, not in Sort. (4.) It can fignifie nothing in the prefent Controversie, to pretend that Books are loft ; or to fay, that, for ought we know, Herophilus might anciently have made this Discovery, or Erafistratus that ; their Reasonings demonstrate the Extent of their Knowledge, as convincingly as if we had a Thousand old Systems of Ancient Anatomy extant. (5.) In judging of Modern Discoveries, one is nicely to diftinguish between Hypothesis and Theory. The Anatomy of the Nerves holds good, whether the Nerves carry a Nutritious Juice to the feveral Parts of the Body, or no. The Pancreas fends a Juice into the Duodenum, which mixes there with the Bile.

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Bile, let the Nature of that Juice be what it will. Yet here a nice Judge may obferve, that every Difcovery has mended the Hypothefes of the Modern Anatomifts; and fo it will always do, till the Theories of every Part, and every Juice, be as entire as Experiments and Obfervations can make them.

As these Discoveries have made the Frame of our own Bodies a much more intelligible Thing than it was before, though there is yet a great deal unknown; to the fame Difcoveries having been applied to, and found in almost all forts of known Animals, have made the Anatomy of Brutes, Birds, Fishes and Infects, much more perfect than it could poffibly be in former Ages. Most of the Rules which Galen lays down in his Anatomical Administrations, are, concerning the Diffection of Apes. If he had been now to write, befides those tedious Advices how to part the Muscles from the Membranes, and to observe their several Insertions and Originations, the Jointings of the Bones, and the like, he would have taught the World how to make Ligatures of all forts of Veffels, in their proper Places; what Liquors had been most convenient to make Injections with, thereby to difcern the Courses of Veins, Arteries, Chyle-Veflels,

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fels, or Lympheducts ; how to unravel the Tefficles; how to use Microscopes to the best Advantage : He would have taught his Disciples when and where to look for fuch and fuch Veffels or Glands ; where Chymical Trials were useful; and what the Proceffes were, by which he made his Experiments, or found out his Theories : Which Things fill up every Page in the Writings of later Diffectors. This he would have done, as well as what he did, had thefe Ways of making Anatomical Difcoveries been then known and practifed. The World might then have expected fuch Anatomies of Brutes, as Dr. Tyfon has given of the Rattle-Snake; or Dr. Moulin, of the Elephant : Such Diffections of Fishes as Dr. Tylon's of the Porpesse ; and Steno's, of a Shark's Head : Such of Infects as Malpighius's of a Silk-Worm ; Swammerdam's, of the Ephemeron ; Dr. Lister's, of Snails, and Testaceous Animals; Mr. Waller's, of the Flying Gloeworm ; and the fame Dr. Tyfon's, of Long and Round Body-Worms. All which shew Skill and Industry, not conceivable by a Man that is not a little verfed in these Matters.

To this Anatomy of Bodies that kave Sensitive Life, we ought to add the Anatomy of Vegetables, begun and brought to

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to great Perfection in Italy and England at the fame Time, by Malpighius and Dr. Grew. By their Glaffes they have been able to give an Acount of the different Textures of all the Parts of Trees, Shrubs and Herbs; to trace the feveral Veffels which carry Air, Lympha, Milk, Rofin and Turpentine, in those Plants which afford them; to defcribe the whole Process of Vegetation, from Seed to Seed; and, in a word, though they have left a great deal to be admired, because it was to them incomprehensible; yet they have discovered a great deal to be admired, because of its being known by their Means.

CHAP. XX.

ctions of Fillies as Dr. Tylon's of t

Of Ancient and Modern Natural Histories of Elementary Bodies and Minerals.

Having now finished my Comparison of Ancient and Modern Anatomy, with as much Exactness as my little Infight into those Things would give me leave, I am fensible that most Men will think that I have been too tedious. But; besides

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befides that I had not any where found it carefully done to my Hands, (though it is probable that it has in Books which have efcaped my Notice,) I thought that it would be a very effectual Instance, how little the Ancients may have been prefumed to have perfected any one Part of Natural Knowledge, when their own Bodies, which they carried about with them, and which, of any thing, they were the nearliest concerned to know, were, comparatively speaking, so very imperfectly traced. However, in the remaining Parts of my Parallel, I shall be much shorter; which, I hope, may be fome Amends for my too great Length in this.

From those Instruments, or Mechanical Arts, whether Ancient or Modern, by which Knowledge has been advanced, I am now to go to the Knowledge it self. According to the Method already proposed, I am to begin with Natural History in its usual Acceptation, as it takes in the Knowledge of the several Kinds of Elementary Bodies, Minerals, Plants, Insects, Beasts, Birds and Fishes. The Usefulness and the Pleasure of this Part of Learning, is too well known to need any Proof. And besides, it is a Study, about which the greatest Men of all Ages have S employed

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employed themfelves. Of the very few loft Books that are mentioned in the Old *Testament*, one was an *History of Plants*, written by the Wifest of Men, and he a King. So that there is Reason to believe, that *Natural History* was cultivated with abundance of Care by all those who did not place the Perfection of Knowledge in the Art of Wrangling about Questions, which were either useles, or which could not easily be decided.

Before I enter into Particulars, it is neceffary to enquire what are the greatest Excellencies of a Compleat Hiftory of any one fort of Natural Bodies. This may foon be determined. That Hiftory of any Body, is certainly the beft, which, by a full and clear Description, lays down all the Characteriftical Marks of the Body then to be defcribed; fo as that its Specifical Idea may be clearly form'd, and it felf certainly and eafily diftinguish'd from any other Body, though, at first View, it be never to like it; which enumerates all its known Qualities; which fhews whether there are any more befides those commonly observed; and, last of all, which enquires into the feveral Ways whereby that Body may be beneficial or hurtful to Man, or any other Body; by giving a particular Account of the feveral Phænomena

Phænomena which appear upon its Application to, or Combination with other Bodies, of like, or unlike Natures. All this is plainly neceffary, if a Man would write a full Hiftory of any fingle Species of Animals, Plants, Infects, or M nerals, whatfoever. Or, if he would draw up a General History of any one of these Universal Sorts, then he ought to examine wherein every Species of this Univerfal Sort agrees each with other; or wherein they are difcriminated from any other Universal Sort of Things : And thus, by degrees, defcend to Particulars, and range every Species, not manifeftly Anomalous, under its own Family, or Tribe ; thereby to help the Memory of Learners, and affift the Contemplations of those who, with Satisfaction to themfelves and others; would Philosophize upon this amazing Variety of Things.

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By this Teft the Comparison may be made. I shall begin with the simplest Bodies first; which, as they are the commoness, so, one would think, should have been long ago examined with the strictest Care. By these I mean, Air, Water, Fire, Earth, commonly called Elements. Three of these are certainly distinct and real Bodies, endued with proper and peculiar Qualities, and so come under the present Question.

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Of the Hiftory of Air the Ancients feemed to know little more than just what might be collected from the Obfervation of its most obvious Qualities. Its Necessity for the immediate Subliftence of the Life of all forts of Animate Bodies. and the unfpeakable Force of Rapid Winds, or Air forcibly driven all one Way, made it be fufficiently observed by all the World : whilft its Internal Texture, and very few of its remoter Qualities, were fcarce to much as dreamt of by all the Philosophers of Antiquity. Its Weight only was known to Aristotle (z), (or the Author of the Book de Cælo,) who observed, that a full Bladder out-weighed an empty one. Yet this was carried no further by any of the Ancients, that we know of; dif-believed by his own School, who feemed not to have attended to his Words, opposed and ridiculed when again revived, and demonftrably proved, by the Philosophers of the prefent Age. All which are Evidences, that anciently it was little examined into, fince Proofs were wanting to evince that, which Ignorance only made difputable. But this has been spoken to already; I fhall therefore only add, that, befides what Mr. Boyle has written concerning the Air, we may confult Otto Guerick's Magdebourg-Experiments; the Experiments of the Academy

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Academy del Cimento; Sturmius's Collegium Curiofum ; Mr. Halley's Difcourfes concerning Gravity, and the Phænomena of the Baro-Scope, in the Philosophical Transactions (a). (a) Num. From all which, we shall find, not only 181. how little of the Nature of the Air was anciently known; but alfo, that there is fcarce any one Body, whole Theory is now to near being compleated, as is that of the Air.

The Natural History of Earth and Water comes under that of Minerals : Fire, as it appears to our Senfes, feems to be a Quality, rather than a Substance; and to confift in its own Nature, in a Rapid Agitation of Bodies, put into a quick Motion; and divided by this Motion, into very fmall Parts. After this had been once afferted by the Corpufcularian Philofophers, it was exceedingly ftrengthned by many Experimental Writers, who have taken abundance of Pains to state the whole Doctrine of Qualities clearly, and intelligibly ; that fo Men might know the difference between the Existence or Esfential Nature of a Body, and its being reprefented to our Senfes under fuch or fuch an Idea. This is the Natural Confequence of proceeding upon clear and intelligible Principles; and refolving to admit nothing as conclusive, which cannot be manifeftly S

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nifeftly conceived, and evidently diftinguished from every thing elfe. Here, if in any thing, the old Philosophers were egregiously defective : What has been done fince, will appear, by confulting, among others, the Difcourfes which Mr. Boyle has written upon most of the confiderable Qualities of Bodies, which come under our Notice ; fuch as his Histories of Fluidity and Firmness, of Colours, of Cold, his Origin of Forms and Qualities, Experiments about the Mechanical Production of divers particular Qualities, and feveral others, which come under this Head ; because they are not Notions framed only in a Closet, by the help of a lively Fancy; but genuine Histories of the Phænomena of Natural Bodies; which appeared in vaft Numbers, after fuch Trials were made upon them, as were proper to discover their feveral Natures.

And therefore, that it may not be thought that I mistake every plausible Notion of a Witty Philosopher, for a new Discovery of Nature, I must defire that my former Distinction between Hypotheses and Theories may be remembred. I do not here reckon the several Hypotheses of Des Cartes, Gassendi, or Hobbes, as Acquisitions to real Knowledge, since they may only be Chimæra's, and amusing Notions,

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Notions, fit to entertain working Heads. I only alledge fuch Doctrines as are raifed upon faithful Experiments, and nice Obfervations; and fuch Confequences as are the immediate Refults of, and manifeft Corollaries drawn from, these Experiments and Observations: Which is what is commonly meant by *Theories*. But of this more hereafter.

That the Natural History of Minerals was anciently very imperfect, is evident from what has been faid of Chymistry already; to which, all the Advances that have ever been made in that Art, unlefs when Experiments have been tried upon Vegetable or Animal Substances, are properly to be referred. I take Minerals here in the largest sence ; for all forts of Earths, Sulphurs, Salts, Stones, Metals, and Minerals properly to called. For Chymistry is not only circumstantially useful, but effentially neceffary here; fince a great many Minerals of very differing Natures would never have been known to have belonged to feveral Families, if they had not been examined in the Furnaces of the Chymifts. Nay, most Fossils are of fuch a Nature, that what fort of Minerals they contain, cannot be known, till they be tried in the Fire. Worthlefs Marcafites cannot any otherwife be diftinguisht from rich S 4

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rich Lumps of Ore. For this Reafon, and becaufe the Subterraneous World is not fo eafily acceffible, the Knowledge of *Foffils*, taken in the general, has received lefs Advancement than any one Part of Natural Learning. But I shall rather chufe to speak here of the Discoveries which have been made in the Mineral Kingdom without the help of Chymistry : The greatest of which is, of a Stone which the

(b) Their Opinions are collected by Gaffendi, in his Animadversions upon Laërtius's Life of Epicurus, p. 362, 363.

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the Ancients admired (b), without ever examining to what Uses it might be applied; and that is the Magnet; the noblest Properties whereof

Sir William Temple acknowledges to be (c) P. 48. anciently unknown (c): Which is more,

(d) This they have collected from a Paffage in Plautus, Merc. Act. 5. Sc.2. Huc Secundus Ventus nunc eft, cape modo vorforiam; where by vorforia they underfland the Compafs, becaufe the Needle always points towards the North: Whereas vorforia is nothing but that Rope with which the Masincrs turned their Sails.

indeed, than what fome do (d), who, at the fame time, make our Fore-fathers to have been extremely flupid, that could fuffer fuch a Difcovery to be ever loft. So that all that can be faid of the Advances which, by the Ules of the Load-flome, have been made in feveral Parts of Learning, do not in the leaft affect Sir

William Temple. However, I fhall mention fome of the greatest; because he charges the Moderns with not making all those

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those Uses of so noble an Invention, which he supposes the Ancient Greeks and Romans would have made, had it fallen into their Hands : Which makes him affert, that the Difcoveries hereby made in remote Countries have been rather purfued to accumulate Wealth (e), than to encrease (e) P. 49. Knowledge. Now, if both these can be done at once, there is no harm done : And fince there is no Dispute of the one, I think it will be an easie Matter to prove the other. I shall name but a few Particulars, most of them rather belonging to another Head. A sola shared alward

Geography therefore was anciently a very imperfect Study, for want of this Knowledge of the Properties of the Load ftone. The Figure of the Earth could formerly only be guess'd at ; which Sir William Temple's admired Epicunus (f) did, for (f) vid. that Reason, deny to be Round; wherein Galfendi's he feems to have been more reafonable, verfices than in many other of his Affertions ; be- upon Laer caufe he thought it an Affront to the Un. tim's Epiderstanding of Man, to be determined by 672. bare Conjectures, in a Matter which could at that time be no other Way decided. Whereas now, most Parts of the Ocean being made eafily acceffible, the Latitudes, and refpective Bearings of every Place, are commonly known: The Nature and Ap-27323 pearances

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pearances of Winds and Tides are become familiar, and have been nicely examined by Intelligent Men in all Parts of the World : The Influence of the Moon. joined with the Motion of the Earth, have been taken in upon almost infallible Grounds, to found Theories of the Sea's Motion upon. And there are great Numbers of other noble, pleafant and ufeful Propositions in Geography, Astronomy and Navigation, which ultimately owe their Original to the Difcovery of that fingle Quality of this wonderful Stone, that it always points towards the North. If these Sciences have brought to us the Wealth of the Indies; if they have enlarged the Commerce and Intercourfe of Mankind, it is fo far from being a Disparagement to the Industry of the Moderns, who have cultivated them to fuch useful Purposes. that it is the highest Character that could be given of those Men, that they purfued their Inventions to fuch noble Ends. Knowledge, not reduced to Practice, when that is possible, is fo far imperfect, that it lofes its principal Ufe. And it is not for acquiring Wealth, but for mif-employing it when it is acquired, that a Man ought to be blamed.

Now, to compleat what I have to fay of Geography all at once, I fhall take notice,

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: 00in, tice, that as the Improvements by Navigation have made all the Sea-Coafts of the Universe accessible, so the Art of Engraving upon Copper-Plates has made it eafie for Men to draw fuch Draughts of every particular Coast, as will imprint lasting and just Idea's of all the Parts of the known World. For want of this, the Ancient Descriptions even of those Countries which they knew, were rude, and imperfect : Their Maps were neither exact, nor beautiful : The Longitudes and Latitudes of Places, were very little confidered; the latter of which can now be exactly determined, and the former may be very nearly adjusted, fince the Application of Telescopes to Astronomical Uses has enabled Men to make much nicer Obfervations of the Moon's Eclipfes than could formerly be made; befides those of Jupiter's Satellites, to which the Ancients were entirely Strangers. This makes our Maps wonderfully exact ; which are not only the Divertifements of the Curious, but of unspeakable Use in Civil Life, at Sea especially; where, by the help of Sea-Charts, Sailers know where they are, what Rocks lie near them, what Sands they must avoid; and can as perfectly tell which Way they must steer to any known Port of the Universe, as a Traveller

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veller can, upon Salisbury-Plain, or New-Market-Heath, which Way he must ride to a great Town, which he knows beforehand is not far from the Edge of the Plain, or of the Heath. Velferus has printed fome ancient Maps (g), that were made monly cal- for the Direction of the Roman Quarter-Masters ; and if a Man will compare them with Sanfon's, or Blaeu's, he will fee the difference; which in future Ages will certainly be vaftly greater, if those Countries which are now barbarous, or undiscovered, should ever come into the Hands of a Civilized or Learned People. But I have not yet done with the Loadstone.

Befides these occasional Uses of the Magnet, its Nature, abstractedly taken, has been nicely enquired into, thereby to discover both its own Qualities, and its Relation to other Bodies that are round about it. And here, indeed, one may justly wonder, that when Flavio Amal-(b) To him this Difco- phi (b) had difcovered, that Iron touch'd very is at- with a Magnet, always points towards the tributed

by Salmuth upon Pancirollus; others call him John Goia, of Amalphi; but Gassendi, Animad. pag. 364. says, it was found out by a Frenchman, about the Year MCC. fince it is mentioned by one Gujotus Previneus, a French Poet of that Time, who calls the Compass Marineta; to which Gaffendi also adds, That it was most probably a French Invention, because the North-Point is by all Nations marked in their Compasses by a Flower de-Luce, the Arms of France.

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North, that all the Philosophers of that Age did not immediately try all manner of Experiments upon that ftrange Stone, which was found to be fo exceedingly ufeful in Matters of common Life. The Portuguezes, who first made daring Voyages, by the Help of the Compais, into the Southern and South-Eastern Seas, better knew the Value of that rich Difcovery : But Philosophy was in those darker Ages divided between the School-men and the Chymists ; the former prefently faived the Business with their Substantial Forms, and what they could not comprehend, came very properly under the Notion of an Oc-cult Quality : The latter found nothing extraordinary in their Crucibles, when they analyzed the Magnet ; and fo they feem foon to have given it over : Befides, in those Days, few Men studied Chymistry with any other Defign than that of finding out the Philosopher's Stone, to which (i) Magnethe Load-ftone could do them no further Jia Nigra, fervice than that of fupplying them with is one of another hard Name to Cant with (i). Words u-For these Reasons therefore, it lay in a fed by Eygood measure neglected by Men of Let-lalethes : ters, till our Famous Country-man, Doctor and it is Gilbert of Colchester, by a vast number of ridiculed Experiments, found that the Earth was Ben Johnbut a larger Magnet ; and he, indeed, was fon's Alchethe mist.

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the first Author of all those Magnetical Speculations which have been made fince his had the good fortune to be generally approved. This Great Man, whom Galileo and Kepler express a great Veneration for in their Writings, deferves here to be mentioned upon another Account ; because He, my Lord Bacon, and Mr. Harriot, all Englishmen, are the Three Men to whom Monfieur Des Cartes was fo very much obliged for the first Hints of the greatest Things, which he has given us in his Philosophical and Mathematical Discourses. For nothing does more convincingly put Things of this Nature out of doubt, than to trace them up to their first Originals, which can be done but in very few. So great have been the Advantages which have accrued to the World, only by Men's Enquiries into the Properties of one fingle Natural Body.

But the Knowledge of Minerals (firictly fo called) though infinitely ufeful to the Life of Man, is not the only thing which may be learn'd in the Subterraneous World. The Bowels of the Earth are wonderfully Fruitful, and afford a Variety, comparatively fpeaking, not much regarded till these later Ages. Not only Salts and Metals, Marble, Coal, and Amber, may be, and are dug from thence; but

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the Inhabitants of the Earth and Sea, have made their Graves in the folideft Rocks, in the profoundest Caverns, in Places, to one's thinking, the most inaccessible, as well as the most unexpected, that could have been imagined. Beds of Oyfters, Cockles, and Scallops, have been found in the Bowels of the higheft Hills, and the hardest Quarries. Groves of Trees have been taken out of the Ground, in Countries where they have never been feen to grow. In fhort, by raking into the deepeft Places of the Earth, we have feen that. Things have once changed their Places; and without the Authority of Writings, or Ancient Tradition, we are assured that the Face of the World is not what it always was.

Men have yet proceeded further, and made Obfervations upon the Figures of every Stone which they found ; very many of which, Antiquity, and even every other Age but this, did quite overlook. Thofe, whofe Luftre and Colour made them remarkable, which are peculiarly called *Gems*, or thofe whofe Figure had fomething that was furprizing at firft view, were indeed taken notice of, and fufficiently valued ; but of them too, very few were then known, in comparison of what have fince been difcovered. The Ancients

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Ancients Knowledge of the Species of Stones, and of the whole Natural Hiftory of the Earth, is in a manner all contained in the 33^d, 34th, 35th, 36th, & 37th Books of Pliny's Natural Hiftory; where there is fo much Fabulous, that it is not eafily diftinguishable from what is Real: If this

(k)De Purpurâ : Differtat. de Glossopetris.

(1) La Vana Speculazione difingannata dal Senfo, printed at Naples, in MDCLXX. and epitomiz'd in the Philosoph. Transat. numb. 219.

(m) In Prodromo : & Differtat. de Cane Carcharia & Gloffopetris.

(n) Travels, p.113, — 131. and Three Phylico-Theological Discourses, Edit. 2.

(0) Microgr. p. 109,-112. Lecture of Springs, P. 48, 49, 50.

(p) Philosoph. Transati. & de Cochlitis.

(9) Essay towards a Natural History of the Earth.

(r) Nat. Hift. of Oxfordshire.

were compared with the Writings of Fabius Columna (k), Agostino Scilla (1), Steno (m), Ray (n), Hooke (o), Lister (p), Woodward (9), and Plot (r), what new Scenes of Knowledge would appear? What Difcoveries has Signior Scilla, made of the Petrifactions (as they are vulgarly effeemed) of the life of Malta alone? The Ancients were not fufficiently aware of the Treafures which the Earth contains within it. The Ancients. did I fay ? hardly any of the Moderns, till within these last Thirty Years. Gold, indeed, and Silver, have, for very many Ages, been infatiably thirsted after; and the other

Metals, Tin and Copper, Iron and Lead, whofe Ufes have long been known, have been carefully fearched for. But when those

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those Six Metals, and some of the most remarkable Minerals, fuch as Mercury, Antimony, Vitriol, Nitre, Sulphur, Sal Gemmæ, Pit-Coal, Amber, and the like, were once found, the Curiofity of Mankind was pretty much at a ftand. Whereas, fince fo many Learned and Industrious Men have thought it worth their while to make Enquiries after the nicest Varieties, and most minute Productions of their Mother Earth, they have found fuch incredible Numbers of formed Stones, and Shells as hard as Stones, upon its Surface, and in its lowermost Recesses that Men have ever dug to, that they have thereby been enabled to raife feveral Hypo-

theses (s), which may perhaps hereafter, when Men are better acquainted with the Productions of the Subter-

(s) Vid. Woodward's Effay towards the Natural History of the Earth, and Whiston's Theory of the Earth.

raneous World, be a means of folving fome of the greatest Difficulties in the *Mofaical History*.

I have taken notice of this, to justifie those Gentlemen who have laboured in these fort of Enquiries: Some of them (t) See these fort of Enquiries: Some of them (t) See who have taken the greatest Pains, have ser of a been publickly ridiculed (t), as if what Virtuoso, in the Efthey had done, had tended no more to fay in Dea the Advancement of valuable Knowledge, fence of the than if they had gather'd Pebbles upon Sexa T the

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the Shore to throw away again, as Caligula's Soldiers did upon the Batavian Coast, when they should have been transported into Britain. There would have been a ftop put to the Progress of Learning long ago, if immediate Ufefulnefs had been the fole Motive of Men's Enquiries. Whatfoever our Great Creator has thought fit to give a Specifical Being to, is, if acceffible, certainly worth our fearching after. And though we do not fee the prefent Advantage that will accrue to Mankind by the Difcovery of this or that particular Species of Minerals, Stones, Plants, or Infects, yet Posterity may; and then all the Returns for the Ufes that they can ever make of them, will be in a great measure due to him that found them out. He that first pick'd up a Magnet, and perceived that it would draw Iron, might then perhaps be laugh'd at, for preferving a Child's Play-thing; and yet the Observation of that noble Quality, was neceffarily previous to the fucceeding Observations of its constant pointing towards the North, which have proved fo unspeakably useful in Civil Life. So that I think all these excellent Men do highly deferve Commendation for these feemingly useless Labours, and the more, fince they run the hazard of being laughed at by Men

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Men of Wit and Satyr, who always have their End, if they make their Readers Sport, whether the thing which they expose, deferves to be ridiculed or not.

But it is time to leave this Argument, when I have obferved, that all that has yet been published concerning the formed Stones, Shells and Petrifactions found in and upon the Earth, will feem but Gleanings, in comparison of that vast Collection which those excellent Naturalists, Mr. Edward Lbwyd of Oxford, and Dr. Woodward have promised shortly to present the World withal.

CHAP. XXI.

I of the Mericins Winds The Empirical as

Of Ancient and Modern Histories of Plants.

THE Natural History of Plants comes next; which, for Variety and Use, is one of the noblest and pleafantest Parts of Knowledge. Its Mechanical and Medicinal Advantages were early known. Fruits afforded the first Sustenance to Mankind; and the old Heathens esteemed those worthy of T 2 Confe-

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Confectation, who taught them to Till their Grounds, Gather their Seed, and Grind their Corn: With Trees they built themfelves Houfes; afterwards they found that the Bark of fome Plants would ferve for Cloaths, and others afforded Medicines against Wounds and Difeases. There is no doubt therefore, but this Part of Knowledge was fufficiently cultivated for the Ules of Humane Life; especially when Mankind becoming numerous, those that were inquisitive communicated their Notions together, and Conversation had introduced the Arts of Luxury and Plenty into the World. Even in America, where most of the Nations which the Europæans difcovered were Salvage, and all Unlearned, the Natives knew the Oeconomical and Medical Ules of many of their nobleft Plants. They made Bread of their Mayz, and the Roots of Tucca, fome smoaked Tobacco, fome poyfoned their Arrows with the Juice of one Plant, others made their Chocolate with the Seeds of another, fome cloathed themselves with Cotton, others cured Agues with the Cortex, and Venereal Difeases with Guajacum, and almost every other fort of Difease to which they were incident with fome Specific or other, which Ufe and Experience had taught them. But whether the Natural History of Conic-

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of *Plants* was yet notwithstanding all this, fo exactly known formerly, as it is at prefent, is the Question.

The ancienteft Writers of Plants now extant, are Theophrastus, Pliny, and Diofcorides; indeed, the only ones who fay any thing confiderable to the prefent Purpose. Theophrastus describes little; gives abundance of Obfervations upon feveral Plants, and the like; but what he fays, is rather to be taken notice of when we fpeak of Agriculture and Gardening, than in this place. Pliny and Dioscorides, who lived long after him, give Descriptions indeed of a great many Plants, but fhort, imperfect, and without Method ; they fay, for Instance, that a Plant is hairy, has broad Leaves, that its Stalks are knotty, hollow, or fquare; that its Branches creep upon the Ground, are erect, and fo forth ; in fhort, if there is any thing remarkable in the Colour or Shape of the Stalk, Root, Seed, Flower or Fruit, which strikes the Eye at first fight, it may perhaps be taken notice of, but then every thing is confused, and feldom above one or two Plants of a fort are mentioned; though fometimes later Botanists have observed some Scores plainly reducible to the fame general Head. Pliny ranges many of the T 3

(u) N. H. l. 12. C. 13. and 1. 27. throughout.

(w) The 12th. Book is chiefly of Plants which bear odoriferous Gums, and fo on of all the reft.

(x) N. H. 1. 25. C. 6,7. Or alibi paffim.

the Plants, which he defcribes in an Order (u) fomething Alphabetical; others (w) he digefts according to their Virtues ; others (x) he puts together. because they were discovered by great Perfons, and called by their Difcoverers Names : All which Methods, how

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much foever they may affift the Memory in remembring hard Names, or in retaining the Materia Medica in one View in a Man's Head, fignifie nothing to the Understanding the Characteristical Differences of the feveral Plants; by which alone, and not by accidental Agreements in Virtue, Smell, Colour, Tafte, Place of Growth, Time of Sprouting, or any Mechanical Ufe to which they may be made ferviceable, Men may reafonably expect to become exact Botanists : Without fuch a Method, to which the Ancients were altogether Strangers, the Knowledge of Plants is a confused thing, depending wholly upon an uncommon Strength of Memory and Imagination, and even with the Help of the best Books scarce attainable without a Master, and then too not under a very long Time.

Conradus Gesner, to whose Labours the World has been unspeakably beholden in almost

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almost all Parts of Natural History, was the first Man (that I know of) who hinted at the true Way to diffinguish Plants, and reduce them to fixed and certain Heads, In a Letter to Theodorus Zuingerus (y), he fays, that Plants are (y) Epiff. to be ranged according to the Shape of Medicinal. their Flowers, Fruits and Seeds ; having P. 113. a. observed that Cultivation, or any accidental Difference of Soil, never alters the Shape of these more Essential Parts; but that every Plant has fomething there peculiar, by which it may be diffinguished, not only from others of a remoter Genus, but alio from those of the .biv (*) fame Family on box detuned most Morston.

About the fame time, Andreas Cafalpinus, and Fabius Columna, the first especially, reduced that into an Art, which Gesner had hinted at before. The first of these, divided the whole Body of Plants, then known, into Classes, from the Number and Order of their Seeds and Seed-Vessels, and drew up a History accordingly. But his Method was too general; and becaufe it took too little notice of the Roots, Leaves, Stalks, and Perianthia of Plants, which in some Tribes ought necessarily to be confidered, it was long laid by as useles; though Clusius, Gaspar Bauhinus, Parkinson, Gerard and T 4 John fon, Necessur

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John fon, and John Baubinus, had taken very laudable Pains, not only in defcribing the more general Sorts taken notice of by the Ancients, but also in obferving their feveral Sub-divisions with great Niceness and Skill. Gaspar Baubinus, who fpent Forty Years in compleating his Pinax, or General Index to all the Botanical Writers, Ancient and Modern, that had appeared before him, ranged the whole System of Plants, then known, into fuch Classes as he thought properest. Yet tho' his Method is allow'd to have been the best, setting Cæsalpinas's aside, which had (z) vid. till then been made use of, (z) it was far from being Natural, and accordingly has never fince been follow'd. John Baubinus alfo had described every particular Plant then known, in his General History of Plants, with great Accuracy; and compared whatfoever had been faid by former Botanists, and adjusted old Names to those Plants which Modern Herbarists had gathered, with fo much Care, that the Philological Part of Botany feems by him to have, in a manner, received its utmost Perfection.

> The great Work therefore already begun by Cæfalpinus and Columna, was still imperfect; which, though perhaps not the most Laborious, was yet the most Neceflary

Morifon. Fralud. Botanic. p. 403.

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Neceffary to a Man that would confider those things Philosophically, and comprehend the whole Vegetable Kingdom, as the Chymifts call it, under one View. This was, to digeft every Species of Plants under fuch and fuch Families and Tribes ; that fo, by the help of a general Method (taken only from the Plants themfelves, and not from any accidental Refpects, under which they may be confidered) once thoroughly understood, a Learner might not be at a lofs upon the Sight of every new Plant that he should meet with, but might discern its general Head at first View; and then, by running over the Tables thereunto belonging, might, at laft, either come to the particular Species which he fought for, or, which would pleafe him much better, find that the Plant before him was hitherto undefcribed. and that by it there would be a new acceffion made to the old Stock. Mr. Ray drew a rough Draught of this Matter, in the Tables of Plants inferted into Bishop Wilkins's his Book, Of a Real Character, and Philosophical Language ; and was foon followed by Dr. Morifon, in his Hortus Regius Blesens, who, pursuant to his own Method, (which, indeed, is nothing elfe but Andreas Cæsalpinus's a little alter'd,) begun A General History of Plants; which he

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he not living to finish, Mr. Ray undertook the whole Work anew, and very happily compleated it.

This great Performance of his, which will be a standing Monument of Modern Industry and Exactness, deferves to be more particularly described. First, therefore, He gives an Anatomical Account, from Malpighius and Grew, of Plants in general: And becaufe the Ancients had faid nothing upon that Subject, of which, for want of Microfcopes, they could have but a very obscure Notion, all that he fays upon that Head is Modern. Afterwards, when he comes to particular Plants, he draws up Tables, to which he reduces the whole Vegetable Kingdom, except fome few irregular Plants, which ftand by themfelves. Thefe Tables are taken from the Shape and Colour of the Flowers, Seeds, Seed-Veffels, Stalks, Leaves and Roots; from the Number or Order of thefe when determined, and Irregularity when undetermined; from the want, or having of particular Juices, Lympha's, Milks, Oils, Rofins, or the like : In fhort, from Differences, or Agreements, wholly arifing from the Plants themselves. His Descriptions are as exact as John Bauhine's every where ; fince he copy's him where others have not described a Plant, better than

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than he; and always supplies, with great Nicety and Art, what was wanting in their Descriptions : We may be fure therefore that here has been a gradual Improvement; for John Bauhine's Descriptions are much better than those of the generality of Botanists that were before him; and there are fcarce any of theirs, which are not preferable to those of Pliny and Dioscorides : He gives the Synonyma of the most exact and best known Botanists ; the want of adjusting which carefully, had made former Compilers tedious; and by inferting what was already extant in the Malabar-Garden, Boym's Flora Sinenfis, Marcgravius's Natural History of Brafil, Hernandez's Account of the Plants of Mexico, Cornutus's History of the Plants of Canada, and other Indian Accounts of Natural Rarities, into his General Hiftory, has fhewed, that the Moderns have been as careful to compleat the Natural Hiftory of remoter Countries, as to understand the Productions of their own.

Before I quit this Work of Mr. Ray's, which is but one of the many Labours that he has happily gone through to enlarge the Bounds of Natural Knowledge, I muft obferve what he delights fo much to have remembred; That a confiderable part of the Debt which Pofterity will owe to this excellent

excellent Naturalift, will be due to the Affiftances which he has for many Years received from my moft Learned Friend Dr. Tancred Robinfon, whofe Skill in all Parts of Phyfical Knowledge have long made him capable of performing whatfoever he fhould think fit to undertake in that fort of Learning, and confequently of enlarging the Bounds of our Knowledge as much as any of those great Men who have been here remembred.

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It may be wonder'd at, perhaps, why I should mention Modern Discoveries of Natural Knowledge in the East and West-Indies, fince the Ancients were not to be blamed for being ignorant of Things which they had no Opportunity of knowing. But, belides that it proves the Extent of the Knowledge of the prefent Age in Natural Hiftory, which may be confidered, without any regard to the Opportunities of acquiring it; it proves alfo, against Sir William Temple, that the Moderns have done what they could in every Point, to make the greatest Use they were able of every Addition to their former Knowledge, which might accrue to them by the Difcovery of the Ulefulnefs of the Load-Stone in Navigation : His (a) P.49. Words are these; (a) The vast Continents of China, the East and West-Indies, the long

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long Extent and Coasts of Africa, have been hereby introduced into our Acquaintance, and our Maps; and great Encreases of Wealth and Luxury, but none of Knowledge brought among us, further than the Extent and Situation of Countrey, the Customs and Manners of so many Original Nations. ---- I do not doubt but many great and more noble Uses would have been made of fuch Conquests, or Discoveries, if they had fallen to the Share of the Greeks and Romans, in those Ages, when Knowledge and Fame were in as great Request as endless Gains and Wealth are among us now: And how much greater Difcoveries might have been made by fuch Spirits as theirs, is hard to gueß. Sir William Temple here owns, that the Political Uses which can be made by such Discoveries, are inconfiderable ; though, at the fame time, he confesses, that even those have not been neglected, fince he acknowledges that Men have brought from those Barbarous Nations an Account of their Cuftoms and Manners; which is the only Political Use, that I know of, that is to be learnt by Travel. What other Advantages might have been made, is hard to tell, unlefs fuch as may conduce to the Compleating of Natural Hiftory ; the Benefits whereof are agreed upon, of all Hands, to be very great. The Subject now

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now before me is Botanics, which has been fo far from being neglected, that all imaginable Care has been taken to compleat it. Monsieur Herman spent several Years in the East-Indies, and at the Cape of Good Hope, to bring back into Europe an Account of the Natural Rarities of those Countries; and his Writings fince his return, flew that he did not lofe his Time. Monfieur Van Rheed, the noble Collector of the Plants that are fo magnificently printed in the Eleven Volumes. of the Hortus Malabaricus, has added more to the Number of those formerly known, than are to be found in all the Writings of the Ancients. As much may be faid of that Excellent Collection of Exotic Plants which Dr. Plukenet has fince given us in his incomparable Tables, befides great Numbers before undefcribed, of which he has fet down Characteristical Marks in his Botanical Almagest. Nay, this ought further to be added in his Commendation; That coming after those who had newly done fo great Things before him, fuch a Harvest where finall Gleanings were rationally to be expected, is more furprizing and extraordinary. When (b) Prince Maurice of Naffaw was in Brafil, he ordered Pictures and Descriptions to be taken of all the Beafts, Birds, Fishes and

(b) Mentrel. Index Plantar. Multiling. in Præfatione.

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and Plants that could be found in that Country : They are now in the Elector of Brandenburgh's Library fit for the Prefs. But I must not forget Dr. Sloane's Catalogue of the Plants of Jamaica, and the Caribbee Islands, a Specimen only of a larger Work, which when once it appears, will (if we had no other Arguments) effectually confute all those who imagine that Wealth and Luxury only have been the Motives of Europæan Voyages into the New World. Since I may venture to fay, that there is but a very finall Part of the Old fo well known, after to long fludy, as those Islands, as to all their Natural Productions, will then be, through the Labour and Skill of that industrious Naturalist. And if Mr. Banister had lived to have compleated his Enquiries into the Natural History of Virginia, we should have had another Inflance of our own Nation, how very Laborious and Careful the Men of thefe later Ages have been to leave no part of acceffible Knowledge uncultivated. Every Day New Additions are made to this Part of Natural History. Breynius's, Plumier's, and Herman's Collections, are Modern to those of Bellonius, Clustus, Rauwolfius, and Prosper Alpinus ; as theirs are to those of Pliny and Dioscorides. One is also to confider, that this is a much more

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more laborious Bufinefs, than the Knowledge of Fowls, Fishes, and Quadrupeds. The Confusion in which the Ancients left Botanical Knowledge, shews how little they understood it. And, which is still more remarkable, it is not only in Accounts of Plants peculiar to the Indies, or to China, that our Botanical Knowledge excels theirs. but in the Productions of Countries, equally acceffible to them, as to us. There are no new Species in Europe or Afra, which the Ancient Herbarists could not have discovered ; no new Soils to produce them without Seed, in cafe fuch a thing were ever naturally possible. Let but a Man compare Mr. Ray's Catalogue of English Plants, and those other numerous Catalogues of the Plants of other Countries, drawn up by other Modern Botanists, with the Writings of Pliny and Dioscorides ; let him examine Ray's General History, or, if that be not at hand, Gerard's, Parkinson's, or John Bauhine's Herbals, or Gaspar Baubine's Pinax; and deduct every Plant, not growing wild, within the Limits of the Roman Empire, and he will fee enough to convince him, that not only this Part of Knowledge is incomparably more exact and large than it was formerly, but alfo, by comparing the Writings of the first Restorers of the Know-

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Knowledge of Simples, Matthiolas, Dodonæus, Fuchfius, Turner, and the reft, with the Writings of Plukenet, Ray and Morifon, that it has been always growing, and will do fo ftill, till the Subject be exhaufted.

It is well known, that Travelling in Mahometan Countries is extremely dangerous; that it is what no Man that makes Learning his Aim in Journeying, would willingly undertake, if he were not ardently possessed with the Love of it. So that whatfoever Perils the Ancient Sages endured in their Journeys into Ægypt for Knowledge, they are equalled at leaft, if not out-done by our Modern Sages; to ule that word, in Sir William Temple's fence, for one that goes far and near to feek for Knowledge. Nay, I may fafely add; that a few inquisitive and learned Travellers, fuch as Rauwolfius, Profper Alpinus, Bellonius, Guillandinus, and Sir George Wheler, have acquainted the learned Men of these Parts of the World with the Natural Hiftory of the Countries of the Levant, not only better than they could have known it by reading the Books of the Ancients, but, in many Particulars, better than the Ancients themselves, Natives of those very Countries, knew it, if the extant Books can enable us to give a com-

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competent Judgment in this Matter. And if Travelling far for Knowledge, be fufficient to recommend the Ancients to our Imitation, I may observe, that Mr. Edmond Halley, who went to St. Helena, an Island situate in the XVIth. Degree of Southern Latitude, to take an Account of the Fixed Stars in the Southern Hemifphere, which are never visible to us who live in the Northern; and to Dantzick. to conferr about Aftronomical Matters, with the great Hevelius, has taken much larger Journeys than any of the Ancients ever did in the fole Pursuit of Knowledge. they are equalled at.

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CHAP. XXII.

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Of Ancient and Modern Agriculture and Gardening.

THE Ancients put fo great a Value upon the Country-man's Arts, and we have fo many Treatifes still extant concerning them, written by their greatest Philosophers, their abless Philosogers, and their best Poets, that to fay nothing of them, may be thought an inexcusable Omission.

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Omission. Husbandry and Gardening are Subjects upon which Theophrastus (Aristotle's Darling Disciple,) Varro (who is faid to be the learnedest of all the Romans,) and Pliny (perhaps no-way his inferior) have written large Discourses yet remaining. Varro and Pliny quote numbers of Authors, fome of them no lefs than Crowned Heads, fince loft. Hefod, whom some of the Ancients make older than Homer, and Virgil the Prince of Roman Poets, have left us Precepts of these Arts. Columella fays, they are related to Philosophy it felf, which those Heathen Sages priz'd fo highly : And the later Roman Writers are still upbraiding the Luxury of their own Times, which wholly took off their Minds from thefe most useful Employments, and fending their effeminate Country men back to their renowned Anceftors who went from the Plough to the Camp, and having there commanded victorious Armies, returned back again to the Plough, to redeem the Time they had loft.

There is no doubt but great Things were done in these Arts by the Ancients: Had we no Books extant to acquaint us with their Knowledge, yet the thing shews it felf: Countries cannot be peopled by Civilized Nations, nor great Cities filled, U_2 nor

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nor Trade carried on by polite and induftrious Inhabitants, unless the Arts of Husbandry flourish. Mankind, without them, would be Wild, like the Negroes, and American Salvages, or Arabs. But yet one Nation may be much more Knowing in these Things than another, and one Age confequently, though all may have Skill enough to answer the Necessities of Civil Life.

In making my Comparison, I shall comprehend all that the Ancients underflood by their Res Rustica, as it takes in the Forester's, the Husbandman's, and the Gardener's Business : Cato, Varro and Columella include the Grasser's also, thereby compleating the whole Body of Farming; but fince his Work cannot well be made a Science of, I shall omit it.

By a *Forefter* here, I underftand one that knows how to Plant, Propagate and Encreafe all forts of Timber Trees; what Soils are proper for every fort; how they may beft be defended from Dangers in their Growth; to what Ufes they are most applicable, when they have arrived to their utmost Perfection; and how they may be best applied: Such a Man, in fhort, as Mr. *Evelyn* instructs in his *Silva*, where he gives a full System of the *Wood-man's* Skill, what he ought to know,

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know, and what to practife. A great part of his Work, and indeed the Nicest part of it, the Ancients were Strangers to, as having lefs Occafion for it. The World was then, comparatively fpeaking, in its Infancy; there was no want of Wood, for Fuel, Building, or Ships; and this Plenty made Men less curious in Contriving Methods of Preferving what they had in fo great Abundance. England, till within a few Ages, was every where overrun with Wood : The Hercynian Foreft anciently took up what is now the most flourishing Part of Germany : And France, which is at prefent fo wonderfully Populous, that little Cultivable Ground remains Untill'd, was in Cæfar's time overfpread with Woods and Forefts. As Men encreafe, Tillage becomes more and more requifite; the confumption of Wood will be proportionably greater; and its want, and the necessary Uses of Timber, which grow upon Men as they become more numerous, will of confequence put them upon Ways to preferve and encrease it. Commerce with diftant Parts, will fhew Men rare and useful Trees, to which their own Soil was before a ftranger; and Luxury will foon teach them to transplant them.

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No wonder therefore if Modern Writers excel the Ancients, upon a Subject which they had lefs Occasion for. The Romans, indeed, were Curious in Planting Trees for Shade or Fruit; but their Industry in that Particular comes under another Head, as rather belonging to the Gardener's Work. It may therefore, perhaps, be efteemed a small Character of Mr. Evelyn's Discourse of Forest Trees, to fay, that it Out-does all that Theophrastus and Pliny have left us on that Subject : For it not only does that, and a great deal more, but contains more uleful Precepts, Hints and Discoveries upon that now fo necessary a part of our Res Rustica, than the World had till then known from all the Observations of former Ages. To name others after him, would be a Derogation to his Performance.

Agriculture properly fo called, has been always neceffary fince Noah's time, when the Flood, that destroy'd the World of the Ungodly, wrought fuch a Change upon the Face of the Earth, as made it neceffary for all Mankind in the sweat of their brows to eat their bread. And the early Populousness of the Eastern Nations, (though I would not bring Semiramis and Zoroaster's Armies to prove it) shews how much it was followed. For though those Countries

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tries should be allowed to be, as they really are, marvellously Fruitful; yet even Ægypt, and the Plains of Babylonia, must be Tilled, to yield a Crop to fatisfie the Hunger of their Inhabitants. Westward, as the World was later Peopled, fo Tillage was proportionably later; and the Athe nians tell of one Triptolemus, who learn'd the Art of Sowing Corn of the Ægyptians, above M Years after Noah's Flood (c). (c) vid. After that, Necessity taught them many Marshami Rules; and it is evident from Theophrastus, pag. 249. and the Roman Writers of Geoponic's, that Edit. Lond. their Knowledge in this kind was very great. They were thoroughly verfed in the Art of Dreffing their Grounds, and the Seafons when it was proper to do every part of a Husbandman's Work; what Compost was fit to meliorate their over-wrought or barren Lands ; what Soil was best for this Grain, and what for that. Their Vines and Olives, which were their Farmer's Care, were managed with much Skill and Curiofity ; and Pliny reckons up a great many forts of both of them, which the Luxury of that Age had taught them to Cultivate. In a word ; They were Industrious, and Skilful Husbandmen; and perhaps, 'tis not possible to tell, at this diftance, whether our Farmers manage their Grounds more judicioufly U4 than

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than they did theirs : Since any Improvements particular to one Climate and Soil, do not prove that Age in which they are made, more Knowing than another, wherein fuch Improvements could take no place : Though at the fame time, a Country naturally barren, which has a weak Sun in an unkindly Climate, requires more Skill, as well as more Industry, to make it Fertile. And therefore it may be question'd,

whether, confidering the Natural Felicity of the Soils of Sicily, Africa and Greece, and much more of Ægypt, Judæa and Babylonia, whofe Fertility was anciently, with Reafon, fo much extolled, the Improvements in England, Scotland and Holland may not juftly come into Competition with any ancient Performances, which how great foever in themfelves, were yet lefs upon this Account, that the Husbandmen in thofe Regions had not fuch Difficulties to ftruggle with.

But though the Ancients, probably, underftood the Art of Sowing Wheat, and Barly, and Legumes, and Flax, and how to Manage their Vines and Olives, as well as any Age has done fince; yet other Things of unspeakable Use they were wholly Strangers to. The Art of Making Cydar, at least of Chusing the best Apples, and Managing their Orchards and

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and Plantations accordingly, they knew little or nothing of. And here again I must remember to take notice, (which, upon every Opportunity, I gladly do,) that Mr. Evelyn's Pomona has taught the prefent Age many things concerning the way of Ordering Apple-Trees, and Making Cydar, to which the World, till then, were wholly Strangers, and for which he ought here to be mentioned with Honour. The Sugar-Cane was not anciently unknown, fince it grows naturally in Arabia and Indostan; but fo little was the Old World acquainted with the Nature of its delicious Juice, that some of their ablest Men doubted whether it were a Dew like Manna, or the Juice of the Plant it felf. All the Arts and Methods therefore of Preparing Sugar, which have made it fo very Uleful to Humane Life, are owing to Modern Portuguezes and English. Malt Drinks were uted in Gaul and Spain anciently, as also in Ægypt, where, probably, they were first invented; but whether they were fo accurately made as ours, no Man can tell, unless he knew certainly whether and with what they fermented them. May I not farther instance in Coffee and Tobacco? The Romans drove a greater Trade in Arabia, and were better acquainted with its Commodities, than this Part of the World

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World has been at any time fince, which no Man that has ever read the XIIIth. Book of Pliny's Natural History can possibly doubt of; yet there is no one Syllable of any thing like Coffee in his whole Work, nor indeed in any other Ancient Author before the Arabs. It is very probable that it grows wild in Arabia, fince it is known to grow no where elfe; and that the Prohibition of Wine by the Ma. kometan Law, made the Arabs find out its Virtues, (whereas before it was a neglected Shrub) to fupply the place of the other Liquor. But still its Cultivation is, as to the present Question, Modern ; and fince the Arabs do now bestow great Care and Pains in Managing it, it comes not improperly in among the Augmentations of Modern Agriculture. And that Tobacco ought here to be mentioned, is question'd by none who know what a Delight and Refreshment it is to so many Nations, fo many feveral Ways. The Accounts of Virginia and Brafil will inform us what Pains our Europæan Planters are at, to make that Herb Palatable to all forts of Perfons. So that without taking notice of any more Particulars, we may be affured, that the Modern Husbandry is a larger, if not a more exact thing than the Ancient ; and even in those things wherein

wherein the Ancients did most excell, in the Management of their Vines and Olives, the comparative Excellency of the later Ages will perhaps be allowed by all those who are acquainted with the Curiosity of the present, in Managing of their Fruit-Trees; which shall be treated of in its proper Place.

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I deferred to fpeak of *Gardening* till the laft; becaufe Luxury always comes after Neceffity, though, generally, when it is once introduced, it ftill goes on encreafing, till it is come to the utmost pitch to which it can be carried. In the prefent Subject, we shall find a gradual Improvement fo very visible, that I hope to put it past Controversie.

The Babylonian Horti Penfiles, or Gardens on the tops of Buildings, ought, in most Men's Opinion, first to be mentioned in point of Antiquity : These, Josephus affures us, were only large Walks of Trees planted on the tops of Mounts of Masons Work, erected in the midst of the City by Nebuchadnezzar, to please his Wife. If they are no older, Alcinous's Garden, described by Homer (d), was (d) Odyst. long before them. There one set the Simplicity of that Heroical Age very plainly. The Poet thought he did a magnificent Thing, when he made it Four Acres

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Acres in Circumference : He tells us, it was stored with Pear-Trees and Apple-Trees, Pomegranates and Figs, Vines and Olives, which furnished him with conflant fucceffions of Fruit; and had two Fountains, one cut into Streams, to water it within, the other flowing from thence, to fupply the Necessities of the Inhabitants of the Town. And this is all he fays of it : Poets and Romancers describe every thing for their Hero's Uses, as fplendidly as they can, what they have feen, read, or heard of, is always brought in, as 'tis expected it should. Accordingly the Garden described by Eustathius (e), in the later times of the Græcian Empire, when Luxury was improved into an Art, which it was far from being in old Homer's time, is much finer, though far fhort of the Gardens and Villa's of the Princes and Great Men of the present Age. Eustathius's Garden has open and arched Walks of Lawrel, Cyprefs and Myrtle, with Arbors of Vines for the Conveniencies of the Guests, to gather the Grapes as they lay at their Meals by the Fountain-fide; with a Jet d'eau in the middle of it, spouting Water out of an Eagle's Bill; by which a She-Goat was milked, with the Liquor dropping out of the Nipples into a Pail on purpose : round the Fountain are Swallows

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lows and Peacocks, Doves and Cocks, all either Caft or Carved, out of whole Bills the Water flowing, gave a Sound to the feveral Birds. This indeed is very Pleafant and Poetical, and shews, that Eustathius had feen or heard of fomething of this nature, by which he guided his Fancy. What the Roman Gardens were, we are fufficiently taught by their Writers of Countrey Affairs: (f) Columella's and (g) Pliny's (f) Lib. x. Precepts and Descriptions are fit for no- tot. or thing elfe but a Kitchin-Garden : They cap. 3. give Directions for Ordering Cucumbers, (g) Lib, Melons, Artichokes, Coleworts, Turneps, XIX-Radishes, Parsnips, Skirrets, Garlick, Leeks, Onions, Afparagus, and a numerous train of Pot-Herbs, with a little Garden-Phylic. They both affign this as the Reafon why Virgil would fay nothing of Gardening, in his Georgic's, it being a Subject fo very poor and jejune, that it would not bear the Ornaments which that Divine Poet gave to all his Works : So they feem to understand his Spatia iniqua which he complains of, upon which account he left off where he did.

For if we fanfie that the Gardens of Lucullus, Pompey, Cicero, Mecænas, Seneca, and of all those Great Romans which are fo highly extolled by the Ancients, were what we ordinarily call Gardens, we are very much mistaken: Their Gardens were *fpacious*

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fpacious Plats of Ground, filled and furrounded with stately Walks of Platan's, and other shady Trees, built round with Xyfti, Portico's, finely paved with curioufly coloured, and far-fetch'd Marble, lay'd in Artificial Figures, noble Ranges of Pillars, adorned within with Fish-Ponds, Aviaries, Fountains and Statues. Such still are the Villa's of the Italian Princes at Frascati, Tivoli, and their other delicious Seats in Latium and Cam-2020 pania, fo celebrated of old, for being the Gardens of the Europæan World. Such. in some measure, are the famous Gardens about Ispahan, where Shade and Coolness give them their greatest Pleasure, in a Region where the Soil naturally furnishes its Inhabitants with excellent Fruit, and fragrant Flowers; fo that they are at little Pains to cultivate that which they can have without, and which would not afford half that Delight in their Gardens of Pleasure, that they find in lying, in the cool of the Day, under a shady Plane, by a Fountain-fide. This made the Ancients, who all lived in warm Climates, admire the Plane fo exceedingly, that frantic Stories are told of Xerxes's doting upon one in the Leffer Afra, when he (b) Alian. was bringing down his mighty Armies against Greece (b). The Walks of Academus,

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demus, and the Gardens of Epicurus, were of this fort, Cool and Delicious, but which can give us no Idea of the Artificial Beauties of Modern Gardens. For the Queftion is not, which is in it felf pleafanter, or whether if we lived in Greece or Perfia, we fhould not rather chufe to imitate the Fashion of those Countries; but, which shews the greatest Skill of him that makes it.

The Gardens of this Age are of feveral forts, for the Kitchin, for Flowers, for Greens, and Shady Walks, for Fruit-Trees, and for the Apothecary.

To the First of these, the Industry of the Ancients (as we have feen already) was in a manner wholly confined. That they knew how to Manage those Kitchin Stores which their Gardens yielded, is unquestionable; but their Variety was not near fo great, fince neither was the New World known, nor the Old fo well examined as it has been fince. Befides, they knew little of the Art of Raifing Summer Plants, in the fevereft Frofts, and fo making all Seafons of the Year unite in one, at Great Men's Tables; the bringing which to the prefent Perfection, is due to the Industry and Sagacity of the Age we live in ; which how much it has enlarged this part of Gardening from what Gardens.

what it was anciently, every Man by himfelf will eafily imagine. The Romans, indeed, had a Way of Preferving Melons in Winter, by Sowing them in a large Box fill'd with rich Mold and Dung, which they houfed in Winter, and exposed in Sun-shiny Days under their Specularia, that seem to have been of the Nature of our Glasses; by which Contrivance, *Tiberius* the Emperor had Melons all the Year round. That shews what Necessity might have forced them to, had they been put to it.

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As for Flower Gardens, the Ancients minded them not. They require an open Sun, and a free Air, which in hot Countries would have been Nuifances, rather than Delights. Plants remarkable for their Beauty, or their Smell, had a Place. indeed, in their Plantations; but we find no mention of any great Variety of Species, or Art in Ranging or Managing those they had. There is nothing faid in any Greek or Roman Authors of large Gravel-Walks, furrounding fpacious Grafs-Plats, edged with beautiful Borders, fill'd with all that Choice of Auricula's, Tulipa's, Carnations, Tuberofes, Jonquilles, Lily's, Hyacinths, Narciflus's, and that almost infinite Diversity of Beautiful and Odoriferous Flowers that now adorn our Gardens.

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Gardens. They knew not the Art of Diverfifying the Colours, Enlarging the Flowers, and giving them all those fickly or luxuriant Beauties which are fo commonly to be met with in our Gardens. Some Notion they had of Managing Dwarf-Trees, and Clipping other Trees that would bear it into what Form the Gardeners please; but they speak so little of it, that we have no reason to think they understood much of that beautiful Furniture which Dwarfs and Ever-greens afford us.

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The Ulefulnels of Fruit-Trees made them be anciently more regarded. The Vines and Olives of the Ancient Greeks and Romans we have mentioned already. They had feveral forts of Apples, Pears, Quinces, Peaches, Pomegranates, Plums, Figs and Nuts : As for Oranges and Limons, and the delicious Fruits of the East and West-Indies, they were wholly Strangers to them. And they had not near the Variety of those they knew, with which Monsieur de la Quintinie, were they now alive, could furnish them. Though they had many Precepts concerning Fruning, Setting, Graffing and Inoculating, knew their Usefulness, and could perform all those Operations with Success; yet, comparatively speaking, their Manner was course; and had their Climates been as unkindly,

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unkindly, their Success would have been They could Manage but indifferent. Earth, and Air, and Water, pretty tolerably; but how to bring the Sun under Rules, (if I may use fo bold an Expression) they knew not ; which yet, by their Wall-Plantations, our Gardeners do every That is an Invention the Ancients Day. were entirely unacquainted with; thereby, in Cold Countries, we can command the Warmth of Italy and Spain, and have Fruits of a Bigness, and Colour, and Tafte, which even at Home they can fcarce reach.

It will not be hard now, with due Allowances, to make a just Comparison between Ancient and Modern Horticulture. Monsieur de la Quintinie will give us a full and just Idea of what the Skill of this Age can reach to: Mr. Evelyn's Kalendarium Hortense ought to be joined with it, to fhew the Difference in a more Northern Clime. What Variety our Florifts can pretend to, will appear from Parkinfon's Paradife, Ferrarius's Flora, or Sweertius's Florilegium. In those Books one may fee what Art can do, to beautifie and enlarge Flowers beyond what Nature ordinarily produces. Other Men can only follow Nature ; the Gardener alone leads it, and haftens or flackens its pace

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pace according as fuits beft with his Defigns or Inclinations.

I need fay nothing of the Phylic-Garden, fince what has been faid already in the fore-going Chapter enables every Man to judge there aright. So much for the Knowledge of Things not endued with Senfible Life.

CHAP. XXIII.

Of Ancient and Modern Histories of Animals.

Nfects feem to be the lowest and fimpleft Order of Animals; for which Reafon I shall begin with them. That fome are very beneficial to Man, affording him Food and Rayment ; as, the Bee, and the Silk-Worm : And others, again, exceedingly troublefom ; as, Wasps, Hornets, Gnats, Moths, and abundance more; was formerly as well known as now. In their Observations about Bees, the Ancients were very curious. Pliny (i) men-(i) N. H. 1.11. 0.9. tions one Aristomachus, who spent LVIII Years in Observing them : And it is evident from Him, Aristotle and Ælian, that, as far as they could make their Obferva-X 2 tions,

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tions, the Ancients did not neglect to digeft neceffary Materials for the Natural Hiftory of this wonderful and ufeful Infect. They were fo particularly careful to collect what they could gather concerning it, that it is to be feared, a great part of what they fay, is fabulous.

But if they were curious to collect Materials for the Hiftory of this fingle Infect, they were, in the main, as negligent about the reft. They had, indeed, Names for the general Sorts of most of them; and they took notice of fome, though but few, remarkable Sub-divisions. The Extent of their Knowledge, in this Particular, has been nicely fhewn by Aldrovandus and Moufet. In their Writings one may fee, that the Ancients knew nothing of many Sorts; and of those which they mention, they give but indifferent Defcriptions; contenting themselves with fuch Accounts as might, perhaps, refresh the Memories of those who knew them before, though they could fignifie little to Perfons who had never feen them. But of their Generation or Anatomy they could know nothing confiderable, fince those things are, in a great measure, owing to Observations made by Microscopes; and having observed few Sub-divisions, they could fay little to the Ranging of thole

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thole Infects which they knew already by diffinct Characteriffics, under feveral Heads. For want of obferving the feveral Steps of Nature in all their Mutations, and taking notice of the Sagacity of many forts of Infects, in providing convenient Lodgings for themfelves, and fit Harbours for their young ones, both for Shelter and Food, they often took thole to be different, which were only the fame Species at different Seafons; and thole to be near of Kin, which Chance only, not an Identity of Nature, brought together.

The Clearing of all these Things is owing to Modern Industry, fince the Time that Sir William Temple has fet as a Period of the Advancement of Modern Knowledge; even within these last XL Years. It lies, for the most part, in a few Hands, and fo is the more eafily traced. In Italy, Malpighius and Redi took feveral Parts. Redi (k) examined abundance of general (k) Expe-Sorts, those Infects especially which are rimenta believed to be produced from the Putre- circa Genefaction of Flesh ; those he found to grow Infectorum. from Eggs laid by other grown Infects of the fame Kinds : But he could not trace the Origination of those which are found upon Leaves, Branches, Flowers, and Roots of Trees. The Generation of those was nicely examined by Malpigbius, in his X 2 Caterpilus

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his curious Discourse of Galls, which is in the IId- Part of his Anatomy of Plants : wherein he has fufficiently fhewn, that those Excrescencies and Swellings which appear in Summer-time upon the Leaves, tender Twigs, Fruits and Roots of many Trees, Shrubs and Herbs, from whence feveral forts of Infects fpring, are all caufed by Eggs laid there by full-grown Infects of their own Kinds; for which Nature has kindly provided that fecure Harbour, till they are able to come forth, and take care of themfelves. But Redi has gone further yet, and has made many Observations upon Infects that live, and are carried about on the Bodies of other Infects. His Observations have not been weakened by Monfieur Leeuwenboek, whofe Glasses, which are faid to excell any ever yet used by other People, fhewed him the fame Animals that Monfieur Redi had difcovered already; and innumerable forts of others, never yet thought of.

Besides Monsieur Leeuwenboek, there have been Two Men in Holland very eminent for this Business, Goedartius and Swammerdam. Goedartius, who was no Philosopher, but one who, for his Diversion, took great Delight in Painting all forts of Infects, has given exact Histories of the several Changes of great Numbers of Caterpil-

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Caterpillars into Butter-Flies, and Worms or Maggots into Flies; which had never before been taken notice of, as Specifically different. These Changes had long ago been observed in Caterpillars and Mag. gots, by Aristotle, Theophrastus and Pliny : But they, who acquaint us with the greatest part of what has been done in. this Matter by the Ancients, content themfelves with general Things. They enter not into minute Enquiries about the feveral Species of these Animals, which are exceedingly numerous : They do not flate the Times of their feveral Changes. So that these Matters being left untouch'd, we have an admirable Specimen of the Modern Advancement of Knowledge, in (1) De In-Goedartius's Papers (1). Lifter.

Still an Anatomical Solution of these Appearances was wholly unknown. What Ovid (m) fays of the Metamorphoses of (m) Me-Infects, is fuitable enough to the Design of his Poem : And there we may well allow such a Natural Change of Caterpillars into Butter-Flies, as is not to be accounted for by the Regular Laws of the Growth and Augmentation of Natural Bodies. But a Natural Historian has no need of the Fictions of a Poet. These Difficulties therefore were cleared by (n) Hist. Swammerdam (n), who in his General General. X 4 History Infest.

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History of Insects, proves, that all the Parts of the full-grown Infect, which first appears in a different Form from what it assumes afterwards, were actually existent in the Fætus, which creeps about as a Caterpillar, or a Maggot, till the Wings, Horns and Feet, which are inclosed in fine Membranes, come to their full Growth ; at which time, that Membrane which at first was only visible, dries up, and breaks; out of which comes forth the Infect proper to that Kind ; which then gendring with its like, lays fuch Eggs as in a feafonable Time are hatched ; that fo the Species, which is not generated by Chance, may always be preferved.

In England, Dr. Lister has done the most, to compleat this Part of Natural Hiftory. His Book of Spiders, gives an Account of great Numbers of Species of those Animals, formerly unobserved. His Latin and English Editions of Goedartius, have not only made that Author more intelligible, by ranging his confused Obfervations under certain Heads conformable to Nature, which may ferve alfo as Foundations to enlarge upon, as more Species shall hereafter be discovered, but he has taken that Occasion of faying many new Things, pertinent to that Subject, all tending to encrease our Knowledge of those Editory Foods fmall 1

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fmall Productions of the Divine Mechanics. His Tables of Shells, exhibit to the Eye a furprizing Variety of those Inhabitants of the Waters, of which, comparatively fpeaking, the World before had no Idea. Buonanni publish'd a beautiful Collection of them fome Years before, at Rome. which when compared with those mentioned in Ancient Books, does as far exceed them, as it felf is exceeded by Dr. Lifter's. And his Anatomical Discourses of Testaceous Animals, lately printed, have difcovered feveral curious Things in that wonderful Tribe; fome of which, though observed above XXX Years ago by Mr. Ray, yet had not been much believed, because not fufficiently illustrated by an able Anatomift. ID FORTES TO THE INTENT INTENT

This is what our Age has feen ; and it is not the lefs admirable, becaufe all of it, perhaps, cannot be made immediately ufeful to Humane Life: It is an excellent Argument to prove, That it is not Gain alone which biaffes the Purfuits of the Men of this Age after Knowledge; for here are numerous Inftances of Learned Men, who finding other Parts of Natural Learning taken up by Men, who, in all probability would leave little for Aftercomers, have, rather than not contribute their Proportion towards the Advancement

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ment of Knowledge, spent a World of Time, Pains and Cost, in examining the Excress of all the Parts of Trees, Shrubs and Herbs, in observing the critical Times of the Changes of all forts of Caterpillars and Maggots, in finding out, by the Knife and Microscopes, the minutest Parts of the smallest Animals, examining every Crevice, and poring in every Ditch, in tracing every Infect up to its Original Egg; and all this with as great Diligence, as if they had had an Alexander to have given them as many Talents, as he is faid to have given to his Master Aristotle.

I shall put Fishes, Fowls and Quadrupeds together; becaufe the Question, as it relates to the Natural Hiftory of these Animals, may be brought into a fmall Compass. For as to the Anatomical part, it is certain, That every Instance of the Defect of Ancient Anatomy already mentioned, is a Proof how little the Texture of the Inward Parts of all these Creatures could poffibly be known, and confequently, that no old Descriptions of these Animals which should go beyond the Parts immediately visible, could have been confiderable. There is hardly one eminent Modern Difcovery in Anatomy, which was not first found in Brutes, and afterwards

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wards examined in Humane Bodies. Many of them could never have been known without the Help of Live-Diffections ; and the reft required abundance of Trials upon great Numbers of different forts of Beafts, fome appearing plainer in one fort of Animals, and fome in another, before the Difcoverers themfelves could frame fuch a clear Idea of the Things which they were then in purfuit of, as that they could readily look for them in Humane Bodies, which could not be procured in fo great Plenty, and of which they had not always the Convenience. All which things extremely tended to the Perfecting the Anatomy of all forts of Brutes. About the other Part, which may comprehend an Account of their Way of Living, their Uses to Humane Life, their Sagacity, and the like, the Ancients took much Pains, and went very far : And there are a great many admirable things in Aristotle's History of Animals, concerning all these Matters. What Helps he had from Writers that lived before his own time, we know not; if he had but little, it must be owned that his Book is one of the greatest Instances of Induftry and Sagacity that perhaps has ever been given. But fince the Question is not fo much, whether that is an excellent Book, as, whether it is perfect ; it ought to

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to be compared with Mr. Willughby's Histories of Fishes and Birds, and Mir. Ray's Synophis of Quadrupeds, as the perfecteft Modern Books upon these Matters; and then it will be easie to make a Judgment. I shall not make it my felf; because no Man can mistake, that compares them, though never fo negligently, together. I name only Aristotle ; because he is, to us at least, an Original Author : He had examined abundance of things himfelf; and though he took a great deal upon truft, yet that could not be avoided, fince he had to little, that we know of, from more remote Antiquity, and it was too vaft a Work for any one fingle Man to go through with by himself. Alian and Pliny feem only to have Copied; and, with submission be it spoken, their Writings are Rhapsodies of Stories and Relations partly true, and partly fabulous, which themselves, very often, had not Skill enough to feparate one from the other, rather than Natural Histories : From which Acculation, even Aristotle himself. cannot wholly be excused. Though this must be faid in Vindication of Pliny, That he neither Believed himself, nor proposed, as Credible, abundance of those strange things which he related in his Natural History. His Defign was, to set down what-

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whatfoever he had found in all his Reading, which was very diffuse, upon those Heads which he treated of : And accordingly, where-ever he met with a flocking Story, he told it, indeed, (as Gefner and Aldrovandus did afterwards, though they were infinitely better Naturalists than he,) but it was in fuch a manner, many times, that a Reader must be exceedingly carelefs that is imposed upon either to believe the thing himfelf, or to think that Pliny believed it, and fet it down for Credible. Which is a great deal more than, I think, can be faid for *Ælian*, whofe Authority is not near fo good as his Greek, for the Elegancy of which he was extremely valued, and the () vid. more, because being by Birth a Roman, Philostrat. he had never (o) in his Life been out of de Vitis So-Italy. But it is time to return.

phift. IR Ælian.

If we would make this Comparison the easier, we should confult Gesner and Aldrovandus; or, if they are too voluminous, Wotton De Differentiis Animalium, who has put under one View, in feveral Heads, almost every thing that is to be found in any ancient Authors concerning thefe Things. What he has collected of the Elephant, may be compared with Doctor Moulin's Anatomy of the fame Creature : The Ancients Observation concerning Vipers, may be read along with Redi's and

and Charas's. Their Anatomical Defcriptions of many other Animals, may be examined with those excellent ones published by the Members of the French Academy, and Mr. Ray in his Synophis : And then the Imperfections of the one, and the Excellencies of the other, will be clearly feen, and the Distance between each exactly stated ; though perhaps this may feem too far about, fince it is manifest at first fight, That no ancient Descriptions of any Creatures could be at prefent valuable, when their whole Anatomy was fo imperfect. Some Mistakes however, might, methinks, have been prevented ; the Ægyptian Sages, fure, might have taught them, that a Crocodile moves his Under-Jaw, and not his Upper; they might foon have found, that a Lion has Vertebres in his Neck, and with them, by confequence, can move it upon occasion, and has as large a Heart (p) Borelhus de Mo- as other Creatures of his Size; that a wAnimali-(p) Porcupine doth not shoot his long um, PartII. Quills upon those that set upon him ; and Frop. 219.

Fabulosa narratio passim circumfertur de Hystrice, qua cutem tendendo, spinas illas pralongas quibus dorsum ejus tegitur, longiùs ejaculatur. De boc Animali enarrabo ea, qua propriis oculis vidi. Hystrix non ejaculatur spinas suas pralongas, sed tantummodo eas arrechas retinendo tremulâ concussione agitat & vibrat. Hoc quidem efficitur à pelle musculosâ, & à musculis semilunaribus, quibus interna cutis stipata est, qui radices spinaram erigunt & concutiunt. Vid. quoque Raii Synopsin Animal. Quadruped. pag. 209.

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feveral other things, which would have prevented feveral Over-fights that are not much for the Honour of Ancient Diligence. This would have faved abundance of fabulous Relations that are to be met with in ancient Naturalists. Their heaping up monstrous Stories, without giving diftinguishing Marks, many times, to teftifie which they believed, and which not, is an evident Sign that they were not. enough acquainted with these Creatures, to make a thorough Judgment what might be relied upon, and what ought to be rejected. For accurate Skill in these things helps a Man to judge as certainly of those Relations which himfelf never faw, as Political Skill does to judge of Accounts of Matters that belong to Civil Life; and a great deal better, fince Nature goes in an evener Courfe than the Wills and Fancies of Men, which alone, and not Rules of Prudence, are the Foundations of most of the Things that are transacted in the World.

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CHAP. XXIV.

Of Ancient and Modern Astronomy and Optics.

Aving now gone through with the feveral Parts of Natural History, I am to enquire into the State of Phylico-Mathematical and Phylical Sciences : Such as Astronomy, Optics, Music and Medics. I put Astronomy first, because of the vast Extent and real Nobleness of its Subject; and alfo, because it has suffered the least Eclipfe of any part of Knowledge whatfoever in the barbarous Times : For when the Greeks neglected it, the Arabs, and from them the Spaniards, took it up. That this Enquiry might be the more exactly made, and that the Truth might be fully and clearly stated, Mr. Edmond Halley, whole Labours towards the Advancement of this Science, have made him Famous in fo many diftant Parts of the World, did me the Favour to communicate this following Paper :

⁶ As for the Astronomy of the Ancients, ⁶ this is usually reckoned for one of those ⁶ Sciences wherein confisted the Learning ⁶ of the Ægyptians; and Strabo expressly ⁶ declares,

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declares, That there were in Babylonia feveral Universities, wherein Astronomy ' was chiefly profeffed; and Pliny tells us ' much the fame thing : So that it might ' well be expected, that where fuch a Science was fo much studied, it ought to have been proportionably cultivated. 'Notwithstanding all which, it does ap-' pear, That there was nothing done by the " Chaldmans older than about CCCC Years before Alexander's Conquest, that could ' be ferviceable either to Hipparchus or 'Ptolemee, in their Determination of the 'Celeftial Motions : For had there been 'any Observations older than those we ' have, it cannot be doubted but the Victo-'rious Greeks must have procured them, 'as well as those they did, they being ftill more valuable for their Antiquity. All we have of them, is only Seven Eclipfes ' of the Moon, preferved in Ptolemee's 'Syntaxis; and even those but very ' courfely fet down, and the oldest not ' much above DCC Years before Chrift ; ' fo that after all the Fame of these Chaldæans, we may be fure that they had 'not gone far in this Science; and though " Callifthenes be faid, by Porphyry, to have brought from Babylon to Greece, Observations above MDCCCC Years older than Alexander, yet the proper Authors making could no

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' no Mention or Use of any such, renders ' it justly suspected for a Fable. What ' the Ægyptians did in this Matter is lefs evident, no one Observation made by ' them being to be found in their Country-" man Ptolemee, excepting what was done ' by the Greeks of Alexandria, under CCC 'Years before Chrift. So that whatever ' was the Learning of these two ancient ' Nations, as to the Motions of the Stars, ' it feems to have been chiefly Theorical; 'and I will not deny but fome of them ' might very long fince be apprized of the ' Sun's being the Centre of our System, ' for fuch was the Doctrine of Pythagoras ' and Philolaus, and fome others who were ' faid to have travelled into these Parts. ' From hence it may appear, That the Greeks were the first Practical Astrono-' mers, who endeavoured in earnest to ' make themselves Masters of the Science, ' and to whom we owe all the old Obfer-'vations of the Planets, and of the Equi-' noxes and Tropics : Thales was the first ' that could predict an Eclipfe in Greece, ' not DC Years before Christ, and without ' doubt it was but a rude Account he had ' of the Motions; and 'twas Hipparchus ' who made the first Catalogue of the 'Fix'd-Stars, not above CL Years before

' Christ; without which Catalogue there

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could be scarce such a Science as Astronomy; and it is to the Subtilty and Diligence of that great Author that the World was beholding for all its Aftronomy, for 'above MD Years. All that Ptolemee did in his Syntaxis, was no more but a bare Transcription of the Theories of Hipparchus, with some little Emendation of the Periodical Motions, after about CCC ' Years Interval; and this Book of Fto-' lemee's was, without Dispute, the utmost ' Perfection of the Ancient Aftronomy, nor was there any thing in any Nation ' before it comparable thereto ; for which Reafon, all the other Authors thereof were difregarded and loft, and among them, Hipparchus himself. Nor did Po-" fterity dare to alter the Theories delivered by Ptolemee, though fucceffively Alba-' tegnius and the Arabs, and after them the Spanish Astronomers under Alphonsus, ' endeavoured to amend the Errors they observed in their Computations. But " their Labours were fruitless, whilst from the Defects of their Principles, it was ' impossible to reconcile the Moon's Mo-' tion within a Degree, nor the Planets, Mars and Mercury, to a much greater Space.

Now in this Science to compare the Ancients with the Moderns, and fo make Y 2 ' a Paral-

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them,

' a Parallel as just as may be, I oppose the " Noble Tycho Brahe, or Hevelius to Hip-' parchus, and John Kepler to Claudius Ptolemee; and I fuppofe, no one acquain-• ted with the Stars, will doubt, That the Catalogue of the Fix'd-Stars made by Tycho Brahe, about C Years fince, does. beyond Competition, far excell that of Hipparchus, being commonly true to a Minute or two, when the other, many ' times, fails half a Degree, both in Longitude and Latitude; and this is the fairlier carried, for that it was as eafie for Hipparchus to observe the Fix'd-Stars, as for Tycho or Hevelius, had he made ' Use of the fame Industry and Instruments, the Telescope, wherewith we now obferve to the utmost possible Nicety, being equally unknown to Tycho as to Hipparchus, and not used by Hevelius. But what may justly be expected from Monfieur Caffini, and Mr. Flamsteed, in this Matter, does yet further advance in Precifenels, as not capable to err half a Minute, though made with Inftruments (q) P. 57. (g) of the Production of Gresham. As to the other Comparison between Kepler and Ptolemee, I question not but all that can judge, will be fully convinced that the Hypothesis of Eccentrics, and "Epicycles introduced by the Ancients only

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only to reprefent the Motions, and that but courfly too, with the Opinion of Ptolemee himfelf thereon, that the Natural Motions were otherwife performed; ought not to be valued against that elegant Theory of the Planetary Motions, first invented by the acute Diligence of Kepler, and now lately demonstrated by that excellent Geometer Mr. Newton, viz. That all the Planets move in Elliptic Orbs about the Sun, at whose Center, being placed in one Focus of the Ellipse, they describe Equal Area's in Equal Times. 'This, as it is the necessary Refult of the Laws of Motion and Gravity, is alfo found rigoroufly to answer to all that is observed in the Motions; fo that the Moderns may, with as much Reafon as in any other Science whatloever, value themfelves on their having Improved, I had almost faid Perfected, this of Altronomy.

Optical Instruments have been to ferviceable in the Advancement of Astronomy, that the Sciences which demonstrate their wonderful Properties ought next to be confidered. Here also I must own my Obligation to Mr. Halley, for this following Account of what the Ancients have done in them, and how much they have been outdone by Modern Mathematicians :

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* I suppose there are few fo thoroughf paced Fautors of Antiquity, as to brag much of their Skill, either in Optics or Dioptrics. Their Want of Optics appears in their want of Authors treating thereon; and yet much better in their want of "Ordonnance (as it is called) in their Paintings, and Baffe Reliev's, as has been already faid in its proper place. And as to Dioptrics, though fome of the Ancients mention Refraction, as a natural Effect of " Transparent Media; yet Des Cartes was the first who, in this Age, has discovered the Laws of Refraction, and brought Diopstrics to a Science. And the Invention of " Telescopes and Microscopes, which must be " wholly allowed to this Century, has received no fmall Improvements from the Study and Charge of Sir Paul Neile, and fome other Members of Gresham. And thefe are fuch Inftruments of real Knowledge, that though we will allow the Ancients "to have done all that great Genii, with due Application, could arrive at ; yet, for ' want of them, their Philosophical Argumentation could not come up to the prefent Pitch; not being able to fathom the boundless Depths of the Heavens, nor to " unravel the Minutiæ of Nature, without the Affistance of the Glasses we are now poffeffed of."

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AP.

Of Ancient and Modern Music.

S IR William Temple having affured us, (r), that it is agreed by the Learned, (r) P. 45. that the Science of Music, fo admired by the Ancients, is wholly lost in the World : And that what we have now, is made up of certain Notes that fell into the Fancy of a poor Friar, in chanting his Mattins : it may feem improper to speak of Music here, which ought rather to have been ranked amongst those Sciences wherein the Moderns have, upon a strict Enquiry, been found to have been out-done by the Ancients. I have chosen, however, to speak of it in this Place, for these following Reasons.

(1.) That whereas all Modern Mathematicians have paid a mighty Deference to the Ancients, and have not only used the Names of Archimedes, Apollonius, Diophantus, and the other Ancient Mathematicians with great Respect; but have also acknowledged, that what further Advancements have fince been made, are, in a Y 4 manner,

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manner, wholly owing to the firft Rudiments, formerly taught: Modern Muficians have rarely made use of the Writings of Aristoxenus, Ptolemee, and the rest of the Ancient Masters in that Art; and, of those that have studied them, very few, unless their Editors, have confessed that they could understand them; and others have laid them as a useless for their Purpose; so that it is very probable, many excellent Composers have scarce ever heard of their Names.

(2.) Music has still, and always will have very lafting Charms. Wherefore, fince the Moderns have used their utmost Diligence to improve whatsoever was improvable in the Writings of all forts of Ancient Authors, upon other equally difficult, and very often not fo delightful Subjects, one can hardly imagine but that the World would, long e're now, have heard fomething more demonstrably proved of the Comparative Perfection of Ancient Music, with large Harangues in the Commendation of the respective Inventors, if their Memory had been preferved, than barely an Account of the fabulous Stories of Orpheus or Amphion, which either have 110

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no Foundation at all, or as Horace of old understood them (s), are allegorically to be interpreted of their reducing a Wild and Salvage People into Order and Regularity. But this is rabidofque Leones. not urged against Sir William Temple, who is not convinced Saxa movere fono Teftude of the Extent of Modern Induftry, Sagacity and Curiofity; though to other Ad-

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cer interpresque Decrum, Cadibus or vietu fædo deterruit Orpheus : Distus ob hoc lenire Tigres, Dictus of Amphion, Thea banæ conditor arcis, nis, Or prece blanda, Ducere quo vellet.

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mirers of Ancient Muhc, who, upon Hearfay, believe it to be more Perfect than the Modern, and yet are, for other Reafons, fufficiently convinced of the unwearied Diligence, and anfwerable Success of the Modern Learned, in retrieving and improving other Parts of Ancient Knowledge, it will not appear inconfiderable.

(3.) Music is a Physico-Mathematical Science, built upon fixed Rules, and stated Proportions ; which, one would think, might have been as well improved upon the old Foundations, as upon new ones, fince the Grounds of Mulic have always been the fame : And Guido's Scale, as Dr. Wallis affures us, is the fame for Substance with the Diagramma Veterum.

(4.) The Ancients had not, in the Opinion of feveral who are Judges of the Matter, fo many Gradations of Half-Notes and

and Quarter-Notes between the Whole ones, as are now used ; which must of neceffity introduce an unipeakable Variety into Modern Music, more than could formerly be had : Becaufe it is in Notes, as it is in Numbers; the more there are of them, the more varioufly they may be combined together.

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(5.) Exceflive Commendations can fignifie nothing here; becaufe every Man gives the highest Applauses to the Pertecteft thing he ever faw or heard, of any kind : And if he is not capable of Inventing in any particular Art himfelf, he can form no clear Idea of it, beyond what himfelf was then affected with, when he first heard those discourse of it, who pretended to be Judges of every thing relating to it.

(6.) It is very probable, that the Ancient Music had all that which still most affects common Hearers. The generality of Auditors are moved with an excellent Voice, are pleafed when Time is exactly kept, and love to hear an Instrument played true to a fine Voice, when the one does not fo far drown the other, but that they can readily understand what is fung, and can, without previous Skill, perceive that the one exactly answers the other throughout ; and their Paffions will

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be effectually moved with fprightly or lamentable Compositions : In all which Things the Ancients, probably, were very perfect. To fuch Men, many of our Modern Compositions, where feveral Parts are fung or played at the fame time, would feem confused, intricate and unpleasant : Though in those Cases, the greater this feeming Confusion is, the more Pleafure does the Skilful Hearer take, in unravelling every feveral Part, and in obferving how artfully those feemingly difagreeing Tones join, like true-cut Tallies, one within another, to make up that united Concord, which very often gives little Satisfaction to common Ears ; though in fuch fort of Compositions it is, that the Excellency of Modern Mufic chiefly confifts. For, in making a Judgment of Music, it is much the fame thing as it is in making a Judgment of Pictures. A great Judge in Painting, does not gaze upon an exquisite Piece, so much to raise his Paffions, as to inform his Judgment, as to approve, or to find fault : His Eye runs over every Part, to find out every Excellency; and his Pleasure lies in the Reflex Act of his Mind, when he knows that he can judicioufly tell where every Beauty lies, or where the Defects are difcernible : Which an ordinary Spectator would

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would never find out. The chiefest thing which this Man minds, is the Story ; and if that is lively represented, if the Figures do not laugh when they should weep, or weep when they should appear pleased, he is fatisfied, if there are no obvious Faults committed any where elfe : And this, perhaps, equally well, if the Piece be drawn by Raphaël, as by an ordinary Master, who is just able to make things look like Life. So likewife in Music ; He that hears a numerous Song, let to a very moving Tune, exquisitely fung to a fweet Instrument, will find his Passions raifed, whilft his Understanding, possibly, may have little or no share in the Business. He scarce knows, perhaps, the Names of the Notes, and fo can be affected only with an Harmony, of which he can render no Account. To this Man, what is intricate, appears confused; and therefore. he can make no Judgment of the true Excellency of those Things, which seem fiddling to him only, for want of Skill in Music. Whereas, on the contrary, the Skill or Ignorance of the Composer, serve rather to entertain the Understanding, than to gratifie the Paffions of a skilful Master, whose Paffions are then the most thoroughly railed, when his Understanding receives the greatest Satisfaction.

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(7.) It will be difficult to form a just Idea of the Pleafure which the Ancient Music afforded, unless one reflects upon the confessedly unimitable Sweetness of the Ancient Poetry, the Greek especially; which, when fung by clear and fweet Voices, in fuch a manner, as that the Hearer never loft a Syllable, could fcarce fail of producing those Emotions of Soul which the Poet intended to raife. And, indeed, the great End of Music, which is to pleafe the Audience, was anciently, perhaps, better answered than now ; though a Modern Master would then have been dif-fatisfied, becaufe fuch Conforts as the Ancient Symphonies properly were, in which feveral Inftruments, and perhaps Voices, play'd and fung the fame Part together, cannot discover the Extent and Perfection of the Art, which here only is to be confidered, fo much as the Compositions of our Modern Opera's.

From all this it may, perhaps, be not unreasonable to conclude, that though (t) those Charms of Music, by which Men (t) P. 45. and Beasts, Fishes, Fowls and Serpents, were so frequently enchanted, and their very Natures changed, be really and irrecoverably lost, if ever they were had; yet the Art of Music, that is to fay, of

of Singing, and Playing upon Harmonious Inftruments, is, in it felf, much a perfecter thing, though perhaps not much pleafanter to an unskilful Audience, than it ever was amongst the Ancient Greeks and Romans.

CHAP. XXVI. Of Ancient and Modern Physic and Surgery.

A Fter these Mathematical Sciences, it is convenient to go to those which are more properly Physical, and in our Language alone peculiarly fo called. What these want in Certainty, they make up in Usefulness : For, if Life and Health be the greatest good Things which we can enjoy here, a Conjectural Knowledge, that may but fometimes give us Relief when those are in danger, is much more valuable than a certain Knowledge of other Things, which can only employ the Understanding, or furnish us with fuch Conveniencies as may be spared; fince we fee that feveral Nations which never had them, lived happily, and did great Things in the World.

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Before I begin my Comparison between Ancient and Modern Skill in Phylic, it may be necessary to state the Difference between an Empiric and a Rational Phylician; and to enquire how far a Rational Phylician may reason right, as to what relates to the Curing of his Patient's Diftemper, though his general Hypothefes be wrong, and his Theories, in themselves confider'd, infufficient. An Empiric is properly he who, without confidering the Conftitution of his Patient, the Symptoms of his Difease, or those Circumstances of his Cafe which arife from Outward Accidents, administers such Physic as has formerly done good to fome Body elfe that was tormented with an Illness which was called by the fame Name with this that his Patient now labours under. A Rational Phylician is he who critically enquires into the Constitution, and peculiar Accidents of Life, of the Perfon to whom he is to administer; who weighs all the known Virtues of the Medicines which may be thought proper to the Cafe in hand; who balances all the Symptoms, and, from past Observations, finds which have been fatal, and which fafe ; which arife from Outward Accidents, and which from the Difeafe it felf ; and who thence collects which ought foonest to be removed,

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Now it is evident, that fuch a Man's Prescriptions may be very valuable, because they are founded upon repeated Obfervations of the Phænomena of Difeafes. And he may form Secondary Theories, which, like Ptolemee's Eccentrics and Epicycles, shall be good Guides to Practice ; not by giving a certain Infight into the first Causes, and feveral Steps, by which the Difeafe first began, and was afterwards carried on ; but by enabling the Phyfician to make lucky Conjectures at proper Courses, and fit Medicines, whereby to relieve or cure his Patient. And herein he may be equally fuccessful, whether he refolves every thing into Hot or Cold, Moist or Dry; into Acids, or Alkali's; into Salt, Sulphur, or Mercury; or into any thing elfe. He does not know, for Instance, that Spittle, Bile, and the Pancreatic Juice, are the main Instruments of Digestion; yet he fees that his Patient digefts his Meat with great Difficulty : He is fure that, as long as that lasts, the fick Man cannot have a good Habit of Body : He finds that the Diftemper arifes fometimes, though not always, from a Visible Cause; and he has tried the Goodness of fuch and fuch Medicines, in feemingly

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feemingly parallel Cafes. He may be able therefore to give very excellent Advice, though he cannot, perhaps, dive into the Original and Caufes of the Diftemper fo well as another Man; who having greater Anatomical Helps, and being accuftomed to reafon upon more certain Phyfiological Principles, has made a ftrict Enquiry into that particular Cafe : And fo by confequence, tho' he cannot be faid to know fo much of the Nature of the Difeafe as that other Man ; yet, perhaps, their Method of Practice, notwithflanding the great Difparity of each others Knowledge, fhall be, in the main, the fame.

Though all this feems certain, yet, in the Argument before us, it is not an easie thing to state the Question fo equally, as to fatisfie all contending Sides. He that looks into the Writings of the generality of the Rational Phylicians, as they called themfelves, by way of Eminence; that is to fay, of those who, about an Hundred Years ago, fet up Hippocrates and Galen, for the Parents and Perfecters of Medicinal Knowledge, will find, throughout all their Writings, great Contempt of every thing that is not plainly deducible from those Texts. On the other hand, If he dips into the Books of the Chymical Philofophers, he will meet with equal Scorn ot Z

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of those Books and Methods, which they, in Derifion, have called Galenical. And yet it is evident, that Practifing Phyficians of both Parties, have often wrought extraordinary Cures by their own Methods. So that there feems to have been equal Injustice on all hands, in excluding all Methods of Cure not built upon their own Principles. Here therefore, without being politive in a Difpute, about which the Parties concerned are not themselves agreed, I shall only offer these few Things: (1.) That if the Greatness of any one particular Genius were all that was to be look'd after, Hippocrates alone feems to have been the Man, whole Affertions in the Practical Part of Physic might be blindly received : For He, without the Help of any great Affiftances, that we know of, did that, which, if it were ftill to do, would feem fufficient to employ the united Force of more than one Age. He was fcrupuloufly Exact in Diftinguishing Difeafes, in Observing the proper Symptoms of each, and taking Notice of their Duration, thereby to make a Judgment how far they might be efteemed dangerous, and how far fafe. Herein his particular Excellency feems to have lain; and this, in the Order of Knowledge, is the first thing that a Rational Phylician ought

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ought to make himfelf Mafter of : Which is a fure Argument, that Hippocrates thoroughly underflood what things were neceflary for him to fludy with the greateft Care, in order to make his Writings always useful to Posterity. (2.) That, in the Opinion of the ableft Judges, the Natural History of Difeases was as perfectly known, and they were as accurately diffinguished by the Ancients, as ever they have been fince; and confequently, that the Knowledge of the Appearances, or Diagnostics (as they call them) of every Diftemper common to us and them, is owing to, at least may be found in the Writings of the Ancients; for this they appeal to the Writings of Aretaus, and Calius Aurelianus, whole Descriptions of the Difeases they treat of, are in a manner perfect : The Fragments of Herophilus, and fome other ancient Phylicians preserved in Calius Aurelianus, fhew this not to have been peculiar to him, but common with the other great Men of Antiquity. (3.) That, fetting afide Chymical Remedies, and fome few Drugs brought to us out of the Weft-Indies, the Body of the Materia Medica now in Ufe, is owing to the Ancients, who applied their Remedies with as great Skill and Judgment as any Modern Phyficians whatfoever. But yet, (4.) Though Zż Wé

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we should allow the Ancient Methods of Practice to have been as perfect, nay, perfecter than those now in use, which some great Men have eagerly contended for ; yet it does not follow, that the whole Compass of their Profession was fo well understood by the Ancients as it is now; because it is absolutely impossible to form just Theories of all Difeases, fo as to lay down the perfecteft Methods of Cure possible, which shall be adapted to all Perfons, in all Circumstances, till Anatomy and Phyfiology are perfectly known; and by confequence, later Theories will always be more effimable, as they are raifed upon newer Discoveries in Anatomy and Phyfiology : So that we may be fure no Ancient Theories can be fo excellent. as fome of those which have been devised by Modern Philosophers. (5.) That if the Addition of every new Medicine be an ufeful Accession to the Body of Physic, then a new Method of Preparing known Medicines; of making those things profitable and noble Remedies, which before were dreaded as Poyions, or laid by as useles; and of trying such Experiments upon Bodies yet unexamined, as will foon and certainly discover some of their most principal Virtues, must be of unspeakable Advantage, and make the Knowledge of thole

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those who possess fuch a Method justly more valuable than that of those who. want it. But this relates more particularly to Chymistry, of which enough has been faid already. (6.) That if the Practice of proper Judges be a reafonable Prejudice for or against any thing, then this Science has received vaft Improvements of late Years : For now the generality of Phylicians acquielce in Modern Theories, or, which in the prefent Difpute is all one, advance new ones upon Anatomical and Physical Principles, purfuant to those Discoveries which have been lately made. In their Practice, they mix Galenical and Chymical Medicines together. They own, that Galenical Ways. of Preparing Drugs, anciently made use of in the Practice of Phylic, are, in many Cafes, not fo valuable as Chymical ones. In fhort, though they pay a due Respect to the Writings of the Ancients, and in those things where they find by their own Experience that the Ancient Obfervations hold, follow their Directions ; yet their conftant Language, and as conftant Practice, whenfoever one oppofes Ancient Authorities to them, is, That the Ancients did very well for their Time; but that Experience, and further Light, has taught them better Things. This, I must - Z 3 needs Almeloween

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needs own, has very great Weight with me, who am apt, cæteris paribus, to be lieve every Man in his own Way; Phyficians especially, because their Science is entirely got by a long Series of repeated Experiments and Observations : So that it feems to be almost impossible, but that, in all fuch Cafes, where Men have the Affistance of former Light, and where the Subject upon which they employ their Pains wanted a great deal of that Perfection, which those that study it have an Idea of, as still wanting, and can only be attained by a longer Experience, fucceffive Ages must make great Additions to the former Stock. (7.) That though the noble Difcoveries of these latter Ages, might, possibly, be found in Hippocrates, Aristotle and Galen ; yet, fince no Interpreters could ever find them there, till they were actually discovered anew by Modern Phylicians, who followed Nature only as their Guide, these late Discoverers have as just Right to the Glory due to fuch Discoveries, as the Ancients could poffibly have : They both copied after the fame Original; they both decyphered the fame Characters, that before were unintelligible ; not by reading Books, but by trying Experiments, and making Obfervations. And therefore, Vander Linden, Almeloveen

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Almeloveen, and the reft of the Bigots for the Ancients, deal very unjustly, when they cry out, upon the Sight of any New Difcovery, This Hippocrates knew; This Aristotle taught. Could these Men have made these Discoveries by studying those Ancient Authors, without the Affistance of Dr. Harvey, Afellius, Pecquet, Malpighius, or the reft? This would hold, in cafe the Circulation of the Blood, the Chyle-Veffels, Lympheducts, and the other great Difcoveries in Anatomy, had really been in the Ancients. That they are not, I hope I have proved To which I fhall only add, already. That former Commentators wanted neither Greek, nor Skill ; and had fuch Things been in their Writings, they would infallibly have found them there.

It is easie now to tell what Acquisitions have been made fince Galen's Days. When Hippocrates lived, Anatomy was a rude, imperfect Thing: It has fince been growing, and the Theories of all Difeases have been proportionably more compleat. Chymistry has been introduced into Physic; thereby the Materia Medica has been enlarged by fome as noble Medicines as any the Ancients were acquainted with; the Nauseous fines of many Medicines has been removed; and they have been made less Z_4 clogging,

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clogging, and more efficacious, fince they may be taken in leffer Quantities, and in more pleafant Vehicles ; to as good, if not better purpose than before. Botanics have been unspeakably enlarged; and thereby also the Difpensatories have been flocked with fome excellent Remedies, that the Old World knew nothing of. If these Particulars be rightly stated, as they feem to be, they will go very far to decide the Question ; And fo I shall leave it, without determining any thing politively about it. So much for that part of Medicine which in our Language is peculiarly call'd Phylic. Surgery comes next to be confidered ; which though at present it be looked upon as inferior to Phylic, yet it was much the ancientest, and is still the certainest part of Medicine. For here the Eye directs the Surgeon how he shall proceed, and if he knows but the Virtue of his Medicines, and how to apply them, he can, generally speaking, tell whether his Patient be curable or not. Anciently this was only a Branch of the Phylician's Work; and the Old Phylicians in the Heroical Times, Æsculapius, Chiron, Machaon, and the reft, were little more than Surgeons, that could apply a Plaister, and cure a Green Wound. Nay, after Learning had emboldened Men to reason upon Eloggung,

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upon the Caufes of Difeafes, whofe Original was not visible to the naked Eye, and to try whether Inward Remedies would not cure them, Surgery was conflantly treated of by Physicians, as a Part of their Profession. Celsus alone will convince every Man of the Truth of this Proposition.

But how they treated of it, I durft not adventure to affert; tho' the Public will thank me for leaving it untouch'd, fince that eminently Learned Surgeon, Mr. Charles Bernard, who is fo great an Honour to his Profession, has done me the favour to communicate this following Paper, which I shall subjoin in his own words:

' If we enquire into the Improvements which have been made by the Moderns in Surgery, we shall be forced to confess, that we have fo little reafon to value 'our felves beyond the Ancients, or to be tempted to contemn them, as the fashion is among those who know little, and have read nothing, that we cannot give ftronger or more convincing Proofs of our own Ignorance, as well as our Pride. I do not pretend that the Moderns have not at all contributed towards the Improvement of Surgery; that were both abfurd and injurious, and ' would nood

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' would argue as much Folly as that which ' I am reproaching : but that which I am contesting for, is, That it confists ra-' ther in refining and dreffing up the Inventions of the Ancients, and fetting ' them in a better light, than in adding " many important ones of our own. Whe-' ther it be, that the Art of Healing External Hurts, being principally the Sub-' ject of our Senfes, was earlier studied, and therefore capable of being fooner brought to a greater degree of Perfe-'ction, than the other Branch of Medi-' cine ; or, that the majority of the meer * Profeffors having been, for fome Ages, illif terate and Empirical, it hath not been ' advanc'd and cultivated fo as it might have been, had they been better qua-' lifted than they generally were, and do ' yet, for the greatest part continue to be: For a Testimony of which, that ' exceeding Paucity of good Writers which 'occurr in Surgery, when compar'd with those in most of the other learned Arts and Sciences, is, in my Opinion fuffi-' cient; and yet, were they fewer, 'twould, ' in the Judgment of these Scioli, be no great detriment to the Art. For the Folly of which Affertion, the best Ex-' cufe that can be made, feems to be, that because some Methods of proceeding 'both

both in *Phylic* and *Surgery*, which are incommunicable, to which every Man muft be directed by his own Judgment, and Natural Sagacity, not being to be found in those Authors whom these opinionated Practitioners have had the luck to confult, they are led immediately to despise all Reading, as useless and uninstructive; especially that of the Ancients, who do not generally, I confess, write to Novitiates and Fools, or to those who will be always such.

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⁶ But whoever hath been converfant in ⁶ their Writings, and hath the Opportu-⁷ nity and Capacity of Comparing and ⁶ Judging from his own Experience, will ⁶ readily confefs, that one thing which ⁶ does not a little recommend the Reading ⁶ of them beyond most of the Moderns, ⁶ is, that they are more accurate in de-⁶ fcribing the *Pathognomonics*, and more just ⁶ and nice in diffinguishing the Species of ⁶ Tumors and Ulcers, than our more re-⁶ fined Moderns are.

' If this Age hath par'd away any rude and fuperfluous Methods of Practice, as it must be confessed they have, it cannot be demonstrated that they were all deriv'd from the Ancients, but were in a great measure introduc'd by ignorant and barbarous Professor of a much later date. 'There

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" There is no question but that the principal Improvements which have thefe latter Ages been made in Surgery, are owing chiefly to the Difcoveries which have been made in Anatomy, by which we are better enabled to folve many of those Phænomena which were before inexplicable, or explained amifs; the most important part, in the mean while. (I mean, the Art of Healing, to which all the others ought to be fubservient). remaining very little better than the Ancients left it.

' As an uncontestable Proof of what I fay, I appeal to all those Bodies of. Surgery which have been hitherto pub-' lished by the most Learned and Celebra-' ted of the Moderns, being all manifeftly 'Transcripts from one another, and the ' best of them from the Ancients. But. ' this may indeed be faid in Defence of the. ' Moderns in this Particular, That even. ' Transcribing is not their Invention, tho' ' it be their Practice ; for Ætius and Ægineta have borrow'd not a little of what they have, from Galen; and Marcellus " Empiricus more grofly from Scribonius. Largus, without to much as remembring his Name among the reft of those Authors to whom he was lefs beholden.

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' Among all the Systematical Wri-'ters, I think there are very few who re-' fuse the Preference to Hieron Fabricius " ab Aquapendente, as a Person of unque-'fioned Learning and Judgment; and ' yet is not he asham'd to let his Readers 'know, that Celfus among the Latins '(who, he tells us, is Mirabilis in Om-'nibus, and advifes, in Horace's words, "Nocturnà versare manu, versare diurnà,) ' Paulus Ægineta among the Greeks, and ' Albucafis among the Arabians (whom 'I am unwilling to place among the ' Moderns, being in the number of those whom our Modern Judges reject, either ' becaufe they never read him, or becaufe ' he had the misfortune to live DC Years " fince) are the Triumvirate to whom he principally stands indebted, for the Af-' fiftance he received from them, in com-' pofing his excellent Book.

⁶ But how many Operations are there now in ufe, which were unknown to the Ancients ? I fear, that upon a due Enquiry, there would be more ufeful ones found to be omitted or difcontinued, than to have been invented by us. But to defcend a little to Particulars, that we may, without Prejudice or Partiality, be enabled to determine whether the Ancients are indeed fo contemtible,

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temtible, and their Writings fo useless as fome would reprefent them. Cutting. for the Stone (to begin with that) was unquestionably theirs, and the manner accurately defcribed by Celfus and others; and yet, that no Perfon or Age may be defrauded of the Glory they deferve, where we can do them right, we must confess, that that way of performing it which in most Cases is preferrible, and in fome only practicable, which by Authors is styl'd Magnus Apparatus, the High Operation, or Cutting upon the Staff, was invented by one Johannes de Romanis of Cremona, who flourisht at Rome, about the Year MDXX. The Manner of the Operation, and the Inftruments neceflary, were first described and publish'd by his Scholar Marianus Sanctus Barolitanus, at Venice, in MDXXXV. The Use of the Modiolus, in Opening the Skull, was likewife theirs ; our Countryman Woodall only mending the Instrument, by making that taper, which was before cylindrical, and for that reafon not altogether fo fecure : The Alæ, or ' Wings, being the Invention of that Great Man Aquapendens, to whom we stand obliged for many other useful Instruments. The Paracentefis, in all its kinds, is theirs : Barbette, indeed, invented an · Inftru-

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'Instrument which is fometimes more commodioufly made use of than the Ancient Methods are. Laryngotomy, or the Opening of the Wind-Pipe in a Quinfey, 'was practis'd by them; an Operation fecure and necessary, however, at this day fo difus'd, that it is almost become obfolete, either through the Timidity of the Patient, or Relations, or the Backwardnefs or Ignorance of the Phyfician or Surgeon ; and though Aretaus, P. Ægi-'neta, and Cælius Aarelianus, seem, from 'the Authority of Antyllus, to discourse 'doubtfully of it, yet the greatest part of the Ancients, both Greeks and Ara-' bians, advise it ; and Galen in particular, ' from Reafon and Experience, as well as ' from the Authority of Asclepiades, justly 'recommends it as the last Refuge in a Quinfey. Cutting for the Hernia Intestinalis, with the true Diffinctions and Cures of all the other Species, are ac-'curately defcribed by them. They ' taught us the Cure of the Pterygion and ' Cataract; they defcrib'd and diftinguish'd all the Difeases of the Eyes, (which were not then, as now, to the reproach of the Age they are, almost folely in the Hands of Old Women and Moun-' tebanks) as justly as any of our Modern Oculists, who, indeed, do little more than 351

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than transcribe from them. Opening an " Artery, and the Jugular-Vein, (pretended "to be revived here in England) was no 'more first attempted by the Moderns, ' than making Ligature in an Aneurism, " which tho' an Operation of no mighty ' difficulty, was certainly not underftood, "very lately, by Fred. Ruysch, a consi-' derable Dutch Anatomist, and Professor " of that and Surgery at Amsteldam, [as " may be seen in his Observationes Ana-" tomico-Chirurgicæ, Obf. 2. printed in " Quarto, at Amstel. MDCXCI.] The Extirpation of the Tonfils, or Uvula, is not our Invention ; though, indeed, the removal of the former by Potential Cauteries, which we fometimes use, when " the Patient will not admit Excision, or " Fire, feems neither to have been practis'd nor known to the Ancients. The manner of treating the Fistula Lacrymalis, " (a nice and difficult Cure, very often,) ' which we continue at this day, is no " other than what was taught by them, only the Use of the Cannula for the " Cautery feems owing to Fabr. ab Aqua-' pendente. As for the Actual Cautery, f no inconfiderable; however terrible a " Branch of Surgery it may feem, though " Costaus, Fienus and Severinus have written fo amply concerning it, yet from one fingle

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' fingle Aphorifm 'tis demonstrable, that Hippocrates knew its true Use as well as any that have fince fucceeded him; not to mention how frequent it is in the Writings of all the reft of the Ancients, and us'd in many Cafes, (I do not doubt but with admirable fucces) wherein it is wholly neglected, or not understood by us. The Cure of the Varices, by Incilion, fcarce talk'd of in our days, feems to have been familiarly practis'd among the Ancients, as is ma-' nifest from Celfus, and Paulus Ægineta; ' though fo painful an Operation, that, as ' Tully [2. Tuscul.] and Plutarch tell us, Ma-' rius was the first who in one Leg under-' went it, flanding, and without being ' bound, though he could not be prevail'd 'upon to purchase with so much Torture 'a Cure in the other : And though Pliny 'tells us, that he was unus Hominum, the fingle Inftance ; yet Tully affures us, that by his Example, there were others that 'fustain'd it with equal Resolution and Fortitude. And whoever is conversant with those obstinate Varicous Ulcers which we frequently meet with, will ' confess, that for the effecting a Cure, 'is abfolutely neceffary, however pain-'ful and fuperfluous an Operation fome may effeem it. The Ancients mention 'the A 2.

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the Vari and Valgi, and prefcribe us a Method of Cure; but the manner of ' their Reduction by the Instruments now ' in use they knew not, which were the 'Invention of Fabricius ab Aquapendente; as was also that for Extraction of the Polypus, which neverthelefs the Ancients cur'd as frequently, though not fo commodioufly as our felves. But the Polypus of the Ear (a Difease indeed which occurrs not fo often as the preceding) feems fo little known to the Moderns, that the very Mention of any fuch Difeafe is rarely to be met with in any of their 'Writings, yet the Cure of it is not omitted by the Ancients. They were perfectly acquainted and furnish'd with convenient Instruments for the Reduction of all the Species of Fractures and Luxations, and the Methods of treating them afterwards; together with all the kinds of Sutures at this day in use among us, and fome too that are now loft, at leaft fo uncertain, that fome very learned Men have thought they employed not their time amits, in endeavouring to determine what they were, and to recover their Ufe. And though fome have contended, that Ifues were unknown to them, the contrary is evident, from Celfus, and Cælius Aurelianus, tho' we

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we must acknowledge, that the placing and continuing them as now we do, appears not to have been in use among them. Nor is the Seton fo extremely Modern, but that Lanfrancus, who liv'd CCCC Years fince, directs its Use, and defcribes the manner of Making, (yet mentions it not as an Invention of his time,) though, indeed, till Hildanus's his days, it feems to have been always made with the Actual Cautery.

' There is no doubt but the Ystegroe protonia, or Cutting the Infant out of ' the Mother, to preferve both, common-'ly call'd Partus Cafareus, (not often, ' if at all practis'd among us, though re-' viv'd by fome of our Neighbours with a ' fuccess which ought to provoke the Emu-' lation of our Professors here) is owing ' purely to the Felicity of the Moderns of 'the last Century. For, not to enter 'into the Controversie, whether Pliny, ' Nonius or Isidore were in the right, in 'afferting, that the First of the Cæsars ' was denominated from his manner of 'Birth ; or Probus and Festus, in affirm-'ing, that they were the Cæsones ; whereas the Cæfars were only fo called, from 'their Hair : Most certain it is, that 'neither Side pretend the Operation to have been done Matre Superstite : Nor A a 2 is

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is there any Evidence, that cutting the *Fætus* out of the Womb, and preferving the Mother, was ever propos'd or thought of by the Ancients, whether *Greek*, *Latine* or *Arabian*; both the Story, and the Reafon of the Name, being to be found only in the Hiftorians and Grammarians. Who it was that firft propos'd or practis'd it, I confefs, I am not able to determine : For *Fr. Roffetus*, who firft wrote folemnly and exprefly, or indeed at all, concerning it, produces feveral Examples of other Men's Experience and Succefs, before ever he attempted it himfelf.

As for those Operations which the Greeks call'd Kohosw µara, or Curtorum Chirurgia, they amounted to no more than cutting the Hair-Lip, or the like, for that they knew and practis'd; and therefore it becomes us to do right to the Age whole it was, for the Difcovery of that which Gaspar Taliacotius properly so calls, and which himfelf brought to Perfection; and (whatever Scruples fome who have not examin'd the Hiftory, may entertain ' concerning either the Truth or Pollibility 'of the Fact) practis'd with wonderful Dexterity and Success, as may be prov'd trom Authorities not to be contested. So that it is a most furprising thing to con-

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confider, that few or none should have fince attempted to imitate fo worthy and excellent a Pattern, especially in an 'Age wherein fo many deplorable and fcandalous Objects do every day feem ' either to beg or command our Affiftance. ' But I do not affert him to have been the ' first Inventor, because it is what I find ' mention'd, though imperfectly, by Alex. ' Benedictus, before Taliacotius was born ; ' and afterwards, by Vefalius, in his Chi-' rurgia Magna, if at least that mean Piece ' be his, as we have it publish'd by Borgarutius, which Fabr. Hildanus juftly questions. There is likewife an Epiftle ' quoted by Steph. Gourmelenus, in his ' Ars Chirurgica, written from one Calen-' tius to his Friend Orpianus, (who, it feems, 'had the misfortune to want a Nofe,) giving him an Account, that there was one Brauca, a Sicilian, qui didicit nares ' inferere, which Calentius himfelf had feen perform'd, and therefore invites him to 'come, with this Encouragement, That he might be fure to return with a Nofe of what fize he pleas'd. Who this Or-' pianus was, is not material to enquire ; nor can I, I confess, fay much of this Brauca, (or Branca, as Taliacotius calls 'him, who feems to know no more of Him or his Hiftory, than what he tran-' fcrib'd Aa 3

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' fcrib'd from Gourmelenus; and Gourme-' lenus himfelf, no more than is express'd ' in this Epistle of Calentius, which af-' fords but little light into the Hiftory;) ' though it is very probable that he was " the fame Perfon whom Ambr. Parey men-' tions to have practis'd this way of 'Inoculating Nofes fome Years before his time in Italy, and gives an Instance of 'a Cadet of the Family à S. Thoano, who 'being weary and asham'd of a Silver 'Nofe, applying himfelf to this Italian, " return'd with one of Flesh, to the Won-'der and Satisfaction of all that knew 'him. As for this Elifus Calentius, from " whom we have the first mention, that I ' can find, of any fuch Operation, he was 'Contemporary and Familiar with San-'nazarius, and Jov. Pontanus, who men-'tions him; as does also Lilius Gyraldus, ' in his Hiftory of the Modern Poets, and 'tells us, agreeably enough, that he was ' Poor, Amorous, and a Poet ; that he was born at Amphracta, in Apulia, but liv'd generally at Naples: His Works were printed about MDIII; and afterwards, his Epistles, among other felect ones, were publish'd by Gilb. Cognatus, and printed by Oporinus, in MDLVIII. But 'I must not omit, among the rest, (what indeed is fo notorious, that no Man, I ' fup-

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fuppose will deny it,) That all the forts
of Amputations, as Limbs, and Breasts, Sc.
were as familiarly practis'd among the
Ancients, as any can pretend they are
among us, if we had only the Authority
of a Poet for it, Immedicabile vulnus
ense rescindendum est.

The Art of Bandage, or Rowling, ' no mean or unneceffary, though neg-' lected piece of Surgery, and upon which ' the French do fo much value themselves, ' they knew fo well, and had in fuch per-' fection, that we have not pretended to 'add much to that excellent and ufeful 'Treatife which Galen hath expresly writ-' ten upon that Subject. And though the ' Variety of Instruments now in use may ' feem, in fome measure, to be justly chal-'leng'd by the Moderns, every Man ad-' ding as his own Fancy fuggefted, and ' the Neceffity required ; yet by what are ' transmitted to us by the Ancients, 'tis ' notorious, that they were neither ignorant nor destitute of those which were 'most necessary; and that they had variety of others too, may, by what we fee defcrib'd by Oribafius and others, and at this day made use of, more easily be ' imagin'd than prov'd, but feems highly probable.

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⁶ As for Topical Medicines, moft cer-⁶ tain it is that we are oblig'd to them, for ⁶ inftructing us in the Nature and Proper-⁶ ties of almost all those of which we do ⁶ at this day form our Applications; fome ⁶ few excepted, the Productions of Mo-⁶ dern Chymistry, in this or the preceding ⁶ Century.

⁶ And as for general Methods of Cure, ⁶ many of them have been fo excellently ⁶ well handled by the Ancients, (to in-⁶ flance only in Wounds of the Head) ⁶ that feveral of the Moderns who have ⁶ written most judiciously upon them, ⁶ have been of Opinion, that they could ⁶ not ferve and oblige Posterity better, ⁶ than by Commenting upon that admi-⁶ rable Book of *Hippocrates* upon the fame ⁶ Subject.

'That which without Injury to the Ancients, or Vanity in our Selves, may be juftly faid, is, That the publifhing Obfervations after that Method which fome of the Moderns have done, is that wherein we muft be allowed infinitely to have exceeded them ; and is vaftly of more Advantage to the Reader, than the perufal of tedious Syftems are capable of being, two or three of which generally comprehending whatever is to be found in all the reft : But particular 'Cafes,

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⁶ Cafes, when judicioufly and faithfully reported, (of which too few, Ifear, even of the Moderns, are guilty,) *Et prodesse folent & delettare*, are diverting and inftructive at once, the Reader more effectually adding other Men's Experience to his own.

But to infift upon every Particular, ' and to pretend to demonstrate what hath ' been invented, difcontinued, or loft in every Age, if it be to be done, requires 'a Perfon of greater Leifure, and infi-' nitely more capable than my felf. What ' I have faid, is fufficient to fhew, that it becomes us to fpeak of the Ancients with Refpect and Civility at least, if it were only for this, That it was our Instruction, and the Benefit of Mankind in general, which induc'd them to take that Care, and to be at fo much Expence of Time and Labour to communicate their Knowledge to the World : Not that we are implicitely to be determin'd by their Authority, or to fuppofe that they have not left room for fucceeding Ages to Invent, and to Improve all those Parts of Surgery wherein they appear either to ^{*} have been miftaken or deficient. For my own part, I must confess, I do entirely concurr with Thomas Bartholine, '[Epist. Med. Cent. 3.] who very well under-

understood the Advantages which the Moderns had, and was himfelf as folicitous for the Improvement of Knowledge, as inquifitive into Nature, and as happy in his Difcoveries, as any of those who imagine it a part of their .Wit and Breeding, to ridicule and contemn the Ancients; Pessime studiis suis consulunt (fays he) qui ita recentiorum scriptis (e immergunt, ut veteres vel negligant vel contemnant, quum plerarumque rerum lux ex illis pendeat : And in another place; Ita Semper recentiorum Sententiis & opinionibus calculum adjeci, ut sua antiquitati reverentia servaretur, cui artis nostræ fundamenta debemus.

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CHAP. XXVII.

Of Ancient and Modern Natural Philosophy.

Aving gone through with the most confiderable Branches of Natural and Mathematical Knowledge, I am now to enquire into the Comparative Excellency of Ancient and Modern Books of Philosophy, thereby to fee in which of them Nature, and its Operations, are explained beft. Here I shall first enquire into the feveral Methods of Philosophizing; and afterwards, into the Intrinsic Worth of the Doctrines themselves. Moderns here are taken in a very ftrict fence. I shall mention none who have made any Entries upon this noble Stage of Nature (u) (u) P. 44. above LXXX Years ago, fince the time of those first Flights of the Restorers of Learning, that are fo exceedingly applauded by Sir William Temple. For Natural Philosophy was the last part of Knowledge which was cultivated with any particular Care, upon the Revival of Learning ; though Natural History, which is a principal Ground-work, had been long before encreasing, and a confiderable Heap of

of Materials had been collected, in order to the Work.

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As for Modern Methods of Philosophizing. when compared with the Ancient, I shall only observe these following Particulars. (1.) No Arguments are received as cogent, no Principles are allowed as current, amongst the celebrated Philosophers of the prefent Age, but what are in themfelves intelligible; that fo a Man may frame an Idea of them, of one fort or other. Matter and Motion, with their feveral Qualities, are only confidered in Modern Solutions of Physical Problems. (x) P. 46. Substantial Forms, Occult Qualities, (x), Intentional Species, Idiosyncrasies, Sympathies and Antipathies of Things, are exploded; not because they are Terms used by Ancient Philosophers, but because they are only empty Sounds, Words whereof no Man can form a certain and determinate Idea. (2.) Forming of Sects and Parties in Philosophy, that shall take their Denominations from, and think themfelves obliged to stand by the Opinions of any particular Philosophers, is, in a manner, wholly laid aside. Des Cartes is not more believed upon his own Word, than Aristotle : Matter of Fact is the only thing appealed to; and Systems are little further regarded, than as they are proper to instruct

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instruct young Beginners, who must have a general Notion of the whole Work, before they can fufficiently comprehend any particular Part of it; and who must be taught to reason by the Solutions of other Men, before they can be able to give Rational Solutions of their own: In which Cafe, a falfe Hypothefis, ingenioufly contrived, may now and then do the Service of a true one. (3.) Mathematics are joined along with Phyfiology, not only as Helps to Men's Understandings, and Quickeners of their Parts, but as absolutely necessary to the comprehending of the Oeconomy of Nature, in all her Works. (4.) The New Philosophers, as they are commonly called, avoid making general Conclusions, till they have collected a great Number of Experiments or Obfervations upon the Thing in hand; and, as new Light comes in, the old Hypotheses fall without any Noife or Stir. So that the Inferences that are now a-days made from any Enquiries into Natural Things, though perhaps they be fet down in general Terms, yet are (as it were by Confent) received with this tacit Referve, As far as the Experiments or Observations already made, will warrant.

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easie to guess. I do not fay, that none of these things were anciently minded ; but only, that they were not then fo generally put in practice. The great Men of Antiquity often exprest themselves in unintelligible Cant : They chiefly aim'd at being Heads of particular Sects : Few of their Natural Philosophers were great Mathematicians : And they did in general establish Hypotheses without a sufficient Fund of Experiments and Observations whereupon to build them. The Corpufcularian Philosophy is in all probability the oldest, and its Principles are those intelligible ones I just now commended. But its Foundations being very large, and requiring much Time, Coft, and Patience, to build any great Matters upon, it foon fell, before it appears to have been throughly understood. For it seems evident, that Epicurus minded little but the raifing of a Sect, which might talk as plaufibly as those of Aristotle, or Plato, fince he despised all manner of Learning, even Mathematics themfelves, and gloried in his having fpun all his Thoughts out of his own Brain; a good Argument of his Wit indeed, but a very ordinary one of that Skill in Nature which Lucretius extols in him, as often as he takes occafion to speak of him. The Ancient Physics look

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took like a thing wholly of Oftentation and Pomp, otherwife I cannot understand why Plato fhould reprove Eudoxus and Archytas, for trying to make their Skill in Geometry useful in Matters of Civil Life, by inventing of Instruments of public Advantage; or think that those fublime Truths were debased, when the unlearned part of Mankind were made the better for them. And therefore, as Plutarch complains, in his Life of Marcellus, Mechanical Arts were defpifed by Geometers till Archimedes's Time : Now though this be particularly spoken there by Plutarch, of the Making of Instruments of Defence and Offence in War, yet it is equally applicable to all the Ancient Philofophy and Mathematics in general. The Old Philosophers seemed still to be afraid that the Common People should despife their Arts, if generally understood : This made them keep, for the most part, to those Studies which required few Hands and Mechanical Tools to compleat them : Which to any Man that has a right Notion of the Extent of a Natural Philosopher's Work, will appear abfolutely neceffary. Above all, the Ancients do not feem fufficiently to have underftood the Connexion between Mathematical Proportions of Lines and Solids, in an abstracted Proposition, and in

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their Reafonings about the Caufes of Natural Things, they did not take much Pains to fhew it. When Galen was to give an Account of Vision, in his Books (y) de Usu Partium, because he had Occafion to use fome few Geometrical Terms, as Cone, Axis, Triangle, and the like ; he makes a long Excuse, and tells a tedious Story of a Dæmon which appear'd to him, and commanded him to write what he did; and all this, left the Phyficians, of that Age should think he Conjur'd, and fo take a Prejudice against all he faid. This shews, that in Galen's Time at least, there was little Correspondence between Mathematical and Phyfical Sciences, and that Mankind did not believe there was fo intimate a Relation between them as it is now generally known there is. Many a Man that cannot demonstrate any one fingle Proposition in Euclid, takes it now for granted, that Geometry is of infinite Use to a Philosopher; and it is believed now upon Truft, because it is become an Axiom amongst the Learned in these Matters. And if it had been to received in Galen's Time, or by those more Ancient Authors whom Galen and his Contemporaries followed, or pretended at least to follow, as their Patterns; fuch as Hippocrates.

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pocrates, whom all Sides reverenced, Herophilus, Erafistratus, Afclepiades, and feveral more, there would have been no need of any Excufes for what he was doing; fince his Readers being accustomed to such fort of Reafonings, would either readily have underftood them, or acquiefced in them as legitimate Ways of Proof. If Three or Four Mathematical Terms were fo affrighting, how would those learned Difcourfes of Steno and Croone, concerning Muscular Motion, have moved them ? How much would they have been amazed at fuch minute Calculations of the Motiveftrength of all the Muscles in the feveral general forts of Animals, as require great Skill in Geometry, even to understand them, which are made by Borellus, in his Discourses of the Motion of Animals? It is not enough, in this Cafe, to quote a Saying or two out of fome great Man amongst the Ancients; or to tell us, that Plato faid, long ago, That God Geometrizes in all his Works ; as long as no Man can produce one Ancient Eflay upon any Part of Phyfiology, where Mathematical Ratiocinations were introduced to falve those Phænomena of Natural Things, upon which it was poffible to talk plaufibly without their Help. At least, it is certain, That they contented themselves with general Theories, Bb

Theories, without entring into minute Difquisitions into the feveral Varieties of Things, as is evident in the two Cafes already alledged, of Vision and Muscular Motion.

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Now as this Method of Philosophizing laid down above, is right, fo it is easie to prove, that it has been carefully followed by Modern Philosophers. My Lord Bacon was the first Great Man who took much pains to convince the World that they had hitherto been in a wrong Path, and that Nature her felf, rather than her Secretaries, was to be addreffed to by those who were defirous to know much of her Mind. ning, Monfieur Des Cartes, who came soon after, did not perfectly tread in his Steps, fince he was for doing too great a part of his Work in his Closet, concluding too foon, before he had made Experiments enough; but then to a vaft Genius he joined exquisite Skill in Geometry, and working upon Intelligible Principles in an Intelligible Manner, though he very often failed of one part of his End, namely, a right Explication of the Phænomena of Nature ; yet by marrying Geometry and Phyfics together, he put the World in Hopes of a Masculine Off-spring in procels of Time, though the first Productions should prove abortive. This was the **Itate** T ROOMES

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flate of Natural Philosophy, when those great Men who, after King Charles IId's Reforation, joined in a Body, called by that Prince himfelf, the ROTAL SOCIETT. went on with the Defign ; they made it their Business to set their Members awork to collect a perfect History of Nature, in order to establish thereupon a Body of Phyfics. What has been done towards it by the Members of that Illustrious Body, will be evident to those who confider that Boyle, Barrow, Newton, Huygens, Malpighius, Leeuwenhoek, Willughby, Willis, and abundance more already named amongst the great Advancers of real Learning, have belonged to it : If it shall be thought too tedious an Undertaking, to examine all their Writings, Mr. Boyle's Works, Monfieur Le Clerc's Phyfics, any one good System of the Cartesian Philosophy, Monfieur Rohault's for Instance, or to comprehend all under one, a Book intituled, Philosophia Vetus & Nova ad Usum Scholæ accommodata, may be confulted, and then there will be no difficulty to determine of which Side the Verdict ought to be given; in the last Book especially it is evident how very little the Ancients did in all Parts of Natural Philosophy, and what a great Compass it at present takes, fince it makes the Comparison I all along appeal to.

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Thus, it feems to me to be fufficiently plain, That the Ancients Knowledge in all Matters relating to Mathematics and Phylics, was incomparably inferior to that of the Moderns. These are Subjects, many of them at least, which require great Intenfenels of Thought, great Strength and Clearness of Imagination, even only to understand them; how much more then to invent them ? The Ancient Orators, who fpoke fo great things in Praife of Eloquence, who make it fo very hard a thing to be an Orator, had little or no Notion of the Difficulty of these Sciences; the Romans especially, who despifed what they did not understand, and who did not without fome Indignation learn of a People whom themfelves had conquered. But if they could have conceived what a Force of Genius is required to invent fuch Propositions as are to be found in the Writings of their own Mathematicians, and of the Modern Geometers and Philofophers, they would foon have acknowledged that there was need of as great at leaft, if not greater Strength of Parts and Application to do very confiderable things in these Sciences, as in their own admired Eloquence, which was never more artfully employed than in commending it felf: The Panegyrics which they made upon Geometry, 213614

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Geometry, were rather Marks of their Pedantry, than of their Skill; Plato and Pythagoras admired them, and therefore they did so too, out of a blind Reverence to those great Names. Otherwife, amongst those numerous Commendations which are given to Archimedes, fome would have been fpent upon the many noble Theorems which he discovered, and not almost all upon the Engines wherewithhe baffled Marcellus at the Siege of Syracufe. The Proposition, That the Superficies of a Sphere is equal to the Area's of Four of its greatest Circles, which is one of the most wonderful Inventions that was ever found in Geometry, fhews him to have been a much greater Man, than all that is faid of him by the Roman or Greek Hiftorians. Had Experimental Philofophy been anciently brought upon the Stage, had Geometry been folemnly and generally applied to the Mechanism of Nature, and not folely made use of to instruct Men in the Art of Reasoning, and even that too, not very frequently neither, the Moderns would not have had fo great Reafon to boaft as now they have: For these are things which come under Ocular Demonstration, which do not depend upon the Fancies of Men for their Approbation, as Oratory and Poetry often Bb 2 do.

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do. So that one may not only in general fay, that the Ancients are out-done by the Moderns in these Matters, but also affign most of the Particulars, and determine the Proportion wherein and how far they have been exceeded, and shew the several Steps whereby this fort of Learning has from Age to Age received Improvement; which ends Disputes and satisfies the Understanding at once.

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beies of a Sphere is count to the Arad's of

CHAP. XXVIII. Of the Philological Learning of the Moderns.

FILLOTIONS Had BELERINGERIN

Hitherto, in the main, I please my felf, that there cannot be much faid against what I have asserted, though I have all along taken care not to speak too positively, where I found that it was not an easie thing to vindicate every Proposition without entring into a Controversie, which would bear plausible things on both Sides, and so might be run out into a multitude of Words, which in Matters of this kind are very tiresome. But there are other Parts of Learning still behind,

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hind, where the bare offering to compare the Moderns to the Ancients, may feem a Paradox; where the fubject Matter is entirely ancient, and is chiefly, if not altogether contained in Books that were written before the Ancient Learning fuffered much Decay.

Under this Head *Philology* and *Divi*nity may very properly be ranked. I place *Divinity* laft, to avoid Repetition; becaufe what I have to fay concerning Modern *Philology*, will strengthen many things that may be urged in the Behalf of Modern *Divinity* as compared with the Ancient.

In fpeaking of the Extent and Excellency of the Philological Learning of the Moderns within these last CC Years, I would not be mil-understood. For the Question is not, whether any Modern Critic has understood Plato or Aristotle, Homer or Pindar, as well as they did themfelves, or even fo well as they were understood by the Age in which they wrote, for that were ridiculous; but whether Modern Industry may not have been able to discover a great many Mistakes in the Affertions of the Ancients about Matters not done in their own Times, but feveral Ages before they were born. For the Ancients did not live all in one Age; Bb 4 and

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and though they appear all under one Denomination, and fo as it were upon a Level, like things feen at a vaft Distance. to us who are very remote from the youngeft of them; yet, upon a nearer View, they will be found exceedingly remote fome from others; and fo as liable to Mislakes, when they talk of Matters not transacted in their own Times, as we are when we realon of Matters of Fact, which were acted in the Reign of William the Conqueror. Wherefore, if one reflects upon the Alteration which Printing has introduced into the State of Learning, when every Book once printed, becomes, in a manner, out of danger of being loft, or hurt by Copiers; and that Books may be comparid, examin'd and canvals'd with much more ease than they could before; it will not feem ridiculous to fay, That Joseph Scaliger, Isaac Cafaubon, Salmasus, Henricus Valefius, Selden, Ufher, Bochart, and other Philologers of their Stamp, may have had a very comprehensive View of Antiquity, fuch a one as Strangers to those Matters, can have no Idea of; nay, a much greater than, taken all together, any one of the Ancients themfelves ever had, or indeed, could have. Demosthenes and Aristophanes knew the State of their own Times better than Cafaubon or Salmasus :

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mafus : But it is a queftion whether *Boëthius* or *Sidonius Apollinarius* knew the State of *Demosthenes's* Time fo well ; yet there also are Ancients to us, and have left behind them Writings of a very estimable Value. Literary Commerce could not anciently be fo frequent as now it is, though the *Roman* Empire made it more easie than otherwise it could have been.

In Ecclefiastical Antiquity this can be more fully proved than it can in Civil; because Monuments of that Kind are more numerous, and have been better preferved. How widely were the Greek Writers, many times mistaken, when they gave an Account of the Aflairs of the Latin Churches. And how imperfect, many times, were the Accounts which the Western Churches had of Things of the greatest Moment, that had been determined in the East ? Though the Council of Nice was Occumenical, yet the African Churches knew fo little of its Canons above L Years after it was held, that the Bishops of Rome imposed Canons made in another Council, held feveral Years after, in another Place, upon them, as Canons made in the Council of Nice : Yet they were all, at that time, under one common Government, and these things were

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were acknowledged by all Sides to be of Eternal Concernment. The fame Negligence, if not greater, is difcernible in Matters which were studied, rather as Recreation and Diversion, than as neceffary Bufinefs. How many of the Ancients bufied themfelves about Examining into the Antiquities of feveral Nations, efpecially after the Old Testament was translated into Greek ? Yet, how few of them understood the Languages of those Countries of which they difputed ? There were but Two of the Ancient Fathers. that we know of, that pretended to Learning, who understood Hebrew accurately; Origen, and St. Hierom: And how well St. Hierom understood it, is now certainly known; not like the Lightfoot's, the Buxtorf's, the Druss's, and the Cappell's of the prefent Age, one may be very well affured : The other Oriental Languages, even these Inquisitive Fathers knew little or nothing of. To how good Purpose they have been cultivated by the Moderns, the Writings of Selden, Bochart, Pocock, and feveral others, do abundantly declare. When Pocock and Golius went into the East, to bring away their Learning, they went to excellent Purpose indeed. The Bodleyan and Leyden Libraries can witness what vast Heaps of Eastern

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Eastern MSS. have been brought, by fuch Men as these, into Europe. One would think I were drawing up a Catalogue, not writing of a Discourse, if I should enumerate the Books which have been printed about the Oriental Learning, within these last LXX Years : And how much they have enlightned all manner of Antiquity, is easie to tell.

How clearly has the Old Chronology and Geography been stated by Modern Critics and Philologers; and the Miftakes and Careleineis of many Writers detected. who were efteemed Authentic even in the Times wherein they lived ? Selden and Bochart, to name no more at prefent, have plainly proved, that all the Ancient Greek Antiquaries were not near fo well acquainted with the Originals of that Mythology, which then made up a good part of their Religion, as well as of their Learning, as they are known at prefent, fince the Languages of those Countries, from whence most of those Rites and Stories took their Original, have been carefully examined, and critically studied. Is it not a very odd thing, that of fo many as have written of the Pyramids, there should not be one exact Account of them, Ancient nor Modern, till Mr. Greaves defcribed them ? They

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They were admired formerly, as much as (z) Barba- now (z); reckoned amongst the Seven Wonders of the World ; and mentioned. from Herodotus's Time, downwards, by all that gave any Account of Ægypt: Yet most Men copied after Herodotus; and many of the reft, who did not, spoke by guels. None of the extant Ancient Authors was fo Exact as Mr. Sandys, who wanted nothing but Mathematical Skill, to have left nothing for Mr. Greaves, who came after him, to do. This is an eminent Inftance, whereby we may give a certain Judgment of the Hiftorical Exactnefs of the Ancients, compared to that of the Moderns. It may be improved to confiderable Purpoles; at least, it is of great Use to justifie those Modern Writers, who have, with great freedom, accufed fome of the greatest of the Ancients, of Carelefnels in their Accounts of Civil Occurrences, as well as of Natural Rarities ; and who have dared to believe their own Reason, against the positive Evidence of an old Hiftorian, in Matters wherein one would think that he had greater Opportunities of knowing the certain Truth, than any Man that has lived for feveral Ages. I tom bloor

But here I expect it should be objected, That this is not to be effected as a Part

of Real Learning. To pore upon old MSS. to compare various Readings; to turn over *Gloffaries*, and old *Scholia* upon Ancient Hiftorians, Orators and Poets; to be minutely critical in all the little Fafhions of the Ancient *Greeks* and *Romans*, the Memory whereof was, in a manner, loft within L or a \overline{C} Years after they had been in ufe; may be good Arguments of a Man's Industry, and Willingness to drudge; but seem to fignisse little to denominate him a great Genius, or one who was able to do confiderable Things himself.

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The Objection is fpecious enough, and the Indiferetions of many Modern Commentators have given but too much Colour for it; which has, in our Nation efpecially, been riveted in Men's Minds, more, perhaps, than in any other learned Nation in Europe : Though in Enquiries into the remotest Antiquities of the oldest Nations, perhaps no People have done near fo much as fome learned Englishmen. But this Objection lies chiefly against the Men, not the Knowledge, the Extent whereof it is only my Bufinefs to enquire into ; and yet, even there too, it is without Ground : For, whoever will be at the pains to reflect upon the vaft Extent of the various Knowledge which fuch

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fuch Men as those I named before have gathered together, which they were able to produce to fuch excellent Purpofes in their Writings, must confess that their Genius's were little, if at all, inferior to their Memories ; those among them, especially, who have bufied themfelves in reftoring corrupted Places of Ancient Authors. There are Thousands of Corrections and Cenfures upon Authors to be found in the Annotations of Modern Critics, which required more Finenels of Thought, and Happinels of Invention, than, perhaps, Twenty fuch Volumes as those were, upon which these very Criticifms were made. For though, generally fpeaking, good Copies are abfolutely necessary; though the Critic himself ought to have a perfect Command of the Language and particular Stile of his Author, should have a clear Idea of the Way and Humour of the Age in which he wrote; many of which things require great Sagacity, as well as great Industry; yet there is a peculiar Quickness in discerning what is proper to the Passage then to be corrected, in diftinguishing all the particular Circumstances necessary to be obferved, and those, perhaps, very numerous ; which often raife a judicious Critic as much above the Author upon whom he

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he tries his Skill, as he that difcerns another Man's Thoughts, is therein greater than he that thinks. And the Objection that is commonly made against Editors of old Books, That every Man cries up his own Author, beyond all that have ever written upon that Subject, or in that Way, will rarely hold of truly great Critics, when they pass their Judgments, and employ their Thoughts upon indifferent Books; fince fome have taken as much pains, in their Critical Annotations (a), to expose Authors who have (a) Vid. Petri Cuhad the good luck to be exceedingly com- nzi Animended by learned Men, as ever others madversiodid to praise them.

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Soon after Learning was reftored, when ca. Copies of Books, by Printing, were pretty well multiplied, Criticism began; which first was exercised in setting out Correct Editions of Ancient Books; Men being forced to try to mend the Copies of Books, which they faw were fo negligently written. It foon became the Fashionable Learning; and after Erasmus, Budæus, Beatus Rhenanus, and Turnebus had difperfed that fort of Knowledge through England, France, Germany, and the Low-Countries, which before had been kept altogether amongst the Italians, it was, for about CXX Years, cultivated with very

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very great Care : And if fince it has been at a fland, it has not been becaufe the Parts of Men are funk, but becaufe the Subject is, in a manner exhausted; or at least, so far drained, that it requires more Labour, and a greater Force of Genius, now to gather good Gleanings, than formerly to bring home a plentiful Harvest; and yet this Age has produced Men who, in the laft, might have been reckon'd with the Scaligers, and the Lipfus's. It is not very long fince Holftenius, Bochart, and Gerhard Vosius, died ; but if they will not be allowed to have been of our Age, yet Isaac Vosius, Nicolas Heinfus, Frederic Gronovius, Ezekiel Spanbeym, and Grævius, may come in; the two last of whom are still alive, and the others died but a few Years fince. England, perhaps, cannot flew a proportionable Stock of Critics of this Stamp. In Henry VIIIch's Time there was an admirable Set of Philologers in the Nation; though there is a great difference to be made between a good Critic, and a Man that writes Latin as eafily and correctly as his Mother-Tongue. Sir Thomas More, Cardinal Pole, Linacre, Collet, Cheek, Afcham, and feveral more, often to be met with in Erasmus's Epistles, wrote Latin with a Purity that no Italian needed then Y CT Y

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to have been ashamed of. Let the Subject they wrote upon have been what it would, one may fee by the Purity of their Stile, that they wrote in a Language which express'd their Thoughts without Constraint. A great Familiarity with the politest Authors of Antiquity, was what these Men valued themselves much upon; and it was then the Delight of the learned Men of this Nation, as much as their Difputes in Religion would give them Though this feemed to fink by leave. degrees, yet that afterwards Critical Skill in Antiquity was valued and purfued by our greatest Scholars, will not be questioned by those who confider that Sir Henry Savile, Mr. Camden, Archbishop Usher, Mr. Selden, Sir John Marsham, Mr. Gataker (not to mention fome now alive, whole Fame will one day equal that of the Salmafius's and the Grotius's of other Nations) were the Glories of our Country, as well as of the Age they lived in.

In fhort, to conclude this Argument : Though Philological and Critical Learning has been generally accused of Pedantry, because it has sometimes been purfued by Men who seemed to value themfelves upon Abundance of Quotations of *Greek* and *Latin*, and a vain Oftentation $C \in Of$

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of diffuied Reading, without any thing elfe in their Writings to recommend them; yet the Difficulty that there is, to do any thing confiderable in it, joined with the great Advantages which thereby have accrued to the Commonwealth of Learning, have made this no mean Head whereon to commend the great Sagacity, as well as Industry of these later Ages.

CHAP. XXIX. Of the Theological Learning of the Moderns.

Disputes in Religion would give them

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rees, yet that afterwards. Critical

TO Philology, I before added Divinity, and, as I hope to prove, not without Reafon. As they relate to our Queftion, they both agree in this, that the Subject of them both is truly Ancient; and that it is impossible to become truly excellent in either of them, without a familiar Conversation with those Original Books, to which the great Masters of both these Sciences do constantly appeal. Our Blessed Saviour did not reveal his Law by halves to his Aposses, nor is the New Testament an imperfect Rule of Faith:

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Faith : The Old Testament likewife has constantly been at hand; and the Jews have, ever fince their Return from the Babylonish Captivity, been scrupulously follicitous to deliver the Genuine Hebrew and Chaldee Text of the Old Testament pure and uncorrupted, to fucceeding Ages. Yet, though thefe, together with the Writings of the Greek and Latin Fathers; be Instruments without which no Divine can work; and though it feems almost impossible that any Man should be able to perform all the Duties of his Profession, that are incumbent upon him as a Scholar, without a competent Exactness in all these Things ; yet it is very possible that Modern Divines, who make use of these Instruments, may be better Work-men than those Ancient Fathers, who furnished them with the greatest part.

Now, that there may be no Difputes about Terms mif-underftood, it will be neceffary to explain what is here meant by a Perfect Divine; that is to fay, fuch an one as may be a Standard whereon to found a Comparison. A Perfect Divine ought to underftand the Text of the Old and New Testament fo exactly, as to have a clear Notion of every Book in general, and of the Grammatical Meaning of every Text in particular; that fo he may be Cc 2 able

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able to reconcile all Difficulties, and anfwer all Objections that may arife: He ought to understand the State of the Church, as to its Doctrine and Discipline, in its feveral Ages : He ought to be thoroughly vers'd in all the General Notions of Ethics, taken in their utmost Extent, to enable him to refolve fuch Cafes of Confcience as may occurr, with Judgment and Satisfaction : He ought to be a Master of all the Topics of Persuasion which can ever lie in his Way, that fo his Exhortations may please and convince those whom he defigns to perfuade at the fame time : Last of all, He ought to be able to Anfwer all the Objections which may be, or have been raifed against the Doctrine and Discipline of the Church, by its open or fecret Enemies. Thefe feem to be the necessary Qualifications of A Perfect Divine ; it may, perhaps be queftion'd whether any Man did ever fully come up to this Description ; neither is it necessary to the prefent Purpole that any should, fince the Question will be as perfectly answered, by determining who have come the nearest to it, as by affigning any particular Perfon that ever quite reach'd up to it. For these Differences do not lie in a Mathematical Point, and I do not defire that any Difputable Things should ever

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ever be brought under Debate. One Qualification, indeed, and that the most valuable of all, I have omitted; but that relates not to the present Controversie, since we are not now enquiring who were the Holiest Men, but who were the Greatest Masters of their Professions, the Ancient Fathers, or the Modern Divines.

The first thing required, is, an Exact Knowledge of the Text of the Old and New Testament. In Understanding the Old, even the LXX Interpreters themselves have often failed, as has been abundantly proved by Modern Critics. The Copies they used were fometimes faulty; and fince they did not mend those Faults, it is more than probable they did not fee them. It has been observed already, That fcarce any of the Fathers understood Hebrew besides Origen and St. Hierom, who therefore were followed as Oracles by many of their Succeffors; even that alone will not fuffice, becaufe there are no other Books besides the Old Testament written in that Language : For which Reason, Syriac, Chaldee, Samaritan and Arabic, have been studied by Modern Critics; not to mention the Writings of the Rabbins and the Talmudists, to which the Ancients were utter Strangers. If we come to Particulars; Who of the An-Cc 3 cients among

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cients ever unravelled the Chronology of the Old Testament, like Archbishop Usher. and Sir John Marsham ? Though Eufebius's Chronicon is a flanding Evidence how much he, and Julius Africanus before him, endeavoured to clear that Matter, which was of fo great Ufe to confound the vain Pretences to Antiquity of those other Nations that were fo unwilling to yield to the Jews in this Particular. Who has ever given fo rational and fo intelligible an Account of the Defign and Intent of the feveral Parts of the Ceremonial Law, as Dr. Spencer ? Who has acquainted the World with the Geography of Genefis, or the Natural History of the Bible, like Monfieur Bochart ? Thefe are much harder things than the lengthning of a fine-fpun Allegory, or than a few Moral Reflections, which conftitute the greateft' part of the Ancient Comments. But the New Testament, it will be faid, was written in a Time that was nearer at hand; and fo was certainly better underftood. Without doubt it was, by the First Fathers; for which Reason their Interpretations (b) and their Reafonings, if (b) Sec we could have recovered, many of them well's Two would have been of infinite value : But when once the Synagogue and the Church upon St. broke off their Correspondence, when once

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once the immediate Reasons of the first Establishment of many Parts of the Christian Discipline, and of great numbers of Allusions to Jewish Customs and Traditions which are to be found in the New Testament, could only be known by Study and Reading, all which the first Chriflians knew without Study, as we do the Manners and Fashions of our own Age and Country, then the ancient Interpretations of the New Testament began to fail; and though fome of them, St. Chryfoftom's and Theodoret's especially, are in themfelves, fetting Antiquity aside, truly valuable; yet, for want of fuch a diffused Knowledge of Eastern Antiquities as was neceffary, and which only could be had by a long Conversation with the Books that are written in those Languages, these admirable Commentators seem in feveral Places not to have found out the true Original of many things in the New Testament which have been discovered fince.

To the next thing, which is Skill in Ecclehastical Antiquity, I have spoken already. The Third and the Fourth, which relate to a Divine, as a Casuist, or as a Preacher, may be considered of together; wherein we of the present Age may, without Vanity, boast of having the best Cc 4 Books,

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Books, and of them too the greatest Numbers, upon these Subjects, written in our own Language, and by our own Countrey-men, of any People in the World. The Excellency of a Cafuist, is, to give fuch Refolutions of Doubts and Queftions proposed to him, as may both fuit with the particular Circumstances of the Person who defires Satisfaction ; and alfo may be perfectly agreeable to the Law of God. A Preacher then feems to perform his Office beft, when he can at once inftruct and move his Auditors; can raife their Paffions, and inform their Judgment; that fo every Sermon upon a Doctrinal Head, may contain the Solution of a Cafe of Confcience. For the first of these; It is certain, that many of the ableft of the Ancient Fathers were very excellent Cafuifts ; as, indeed, every Man who has a right Judgment, an honeft Mind, and a thorough Acquaintance with the Defign of our Bleffed Saviour, revealed in the Gospel, must of necessity be. And if, at this distance, many of their Decifions feem over-fevere, there is as great, at least, if not greater Reason to suspect, that the Complaints now-a-days railed against them, may arise from our Degeneracy, as from their unwarrantable Strictnels. But for the Ancient Way of Preaching, there

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there is much more to be faid. The great Handle by which an Hearer is enabled to carry along with him a Preacher's Arguments, is, Method and Order. Herein the Ancient Homilifts are exceedingly defective: Flights of Rhetoric, which are more or lefs judicioufly applied, according to the Abilities of the feveral Preachers. make up the greatest part of their Difcourses : And, after Origen, most Men bufied themselves in giving the People Allegorical Interpretations of Paffages of Scriptures; which were infinite, according to the Fancies of those that used them. St. Chryfostom, indeed, reformed this Custom in the Greek Church : His Authority went a great way; and his Interpretations were almost always Literal, and, fuitably to his vaft Genius, very Judicious. But he that confiders Preaching, as an Art capable of Rules and Improvement, will find a mighty difference between a Just, Methodical Discourse, built upon a proper Text of Scripture, wherein, after the Text is carefully explained, fome one Duty or Doctrine of Religion, thence arifing, is plainly proved by just and folid Arguments, from which such Topics of Persuasion are drawn at last, as are the most likely to raise such an Affection, and engage those Passions in the Minds 22 of

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of all the Auditors, as will please and move Good Men, and filence, at leaft, if not perfuade the Bad; and between a Loofe, Paraphrastical Explication of a large Portion of Scripture, ending, at laft, in a general Ethical Harangue, which is the usual Method of most of St. Chryfastom's Homilies. Whereas by the former Method, frictly followed, many of our English Sermons, especially of the Great Men of our own Church, fince the Restauration, are Solutions of the most difficult Questions in Divinity, and just Difcourses upon the several Duties of the Christian Life; and this with fo much Smoothness, so great Beauty of Language, and fuch a just Application of the greatest Ornaments of True and Masculine Eloquence, to Things at first View, oftentimes, the most opposite, that the Hearer takes a Pleafure to think, that then he is most instructed, when he is best pleased. The Want of this Method in the Ancient Homilists, is the great Reason why they are fo little read. It is not becaufe they are hard to be understood; for an indifferent Skill in Greek and Latin is fufficient to go through with the greatest part of them : But Want of Method, great Multiplicity of Words, and frequent Repetitions, tire out most Readers : They know not

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not how far they are got, but by the Number of the Leaves ; and fo having no keft for their Minds to lean upon, when once they begin to be weary, they are foon difgusted. If therefore these Inconveniences are, in a great measure, avoided by Modern Preachers, their Sermons are, in their kind, more perfect, though the Matter which both of them work upon be the fame. And if these Things be the Effects of great Study, and of an exact Judgment, at least in those who contributed the most to fo great an Alteration; then this also may come in as a proper Evidence of the Encrease of Modern Learning; and with much more Reafon than those Things which only tend to divert a Man, when he is unfit for ferious Business. Who those are who have fucceeded the Hookers, the Chillingworths, the Sandersons, and the Hammonds of the last Age, to fuch excellent purpose for the prefent, and those that shall come after, I need not name; but shall rather conclude with that Saying in Velleius Paterculus, upon a not much unlike Occafion ; Vivorum ut admiratio magna, ita censura difficilis est.

The laft thing which I mention'd, as necessary for a Divine, is, To be able to Answer such Objections as have been, or may be

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be raised against the Christian Faith. Of the Controverfies which have arifen among Christians, and the Adversaries with whom they have been obliged to engage, there are in the prefent Account two Sorts ; those which the Ancient Fathers were concerned with, and those that have appeared fince. Of the latter it may, poffibly, feem hard to pass a Judgment, fince one cannot well fay how Men would have managed Disputes which never came in their way. The former may also be fubdivided into those which have been renewed in our own Time ; and those of which we have only the Memory in Ancient Books. So that one is rather to confider how Controverfies were handled in general, and fo inferr how these Modern ones, which have only engaged the Wits and Paffions of later Ages, would have been managed, had there been an Occasion.

It is evident, that in their first Disputes with the Gentiles, the old Apologists did with great Accuracy expose both the Follies of their Worship, and the Vanity of their Philosophy : They opened the Christian Religion with great Clearness; they shewed the Grounds of their Belief, and proved its Reasonableness upon such Principles as were both solid in themselves, and

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and fuitable to the Ways of Arguing, and the peculiar Notions of all their teveral Adverfaries. Afterwards, when the Mysteries of the Christian Religion were fo eagerly debated, in Ages wherein they feared no Foreign Force, the Men of Learning shewed as great Subtilty in their Arguments, and as great Dexterity in shifting off the Sophisms of their Opponents, as have ever been shewed in later Times. So that thus far the Moderns feem to have little Advantage : And, indeed, the Books that were written by the Ancients in Defence of the Christian Religion, were very admirable : But in the Controverfies that were managed amongst themfelves, there feem to be, many times, as visible Signs of too great a Subtilty, as of a judicious Understanding of the Point in hand : They used little Method in ranging their Arguments, and rarely stated the Question in plain and short Terms : This made them often multiply Words to a tedious length, which both tired the Readers, and darkned the Difpute. That all these Faults are too often found in the Polemical Discourses of the Moderns, is most certain : But Comparisons are always laid between the ableft Men of both Sides. The Modern Defences of the Do-Arines of the Trinity, and the Incarnation, may

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may be compared with the old Defences of the same Doctrines against the Arians. and other Ancient Heretics. If Heretics may be compared with Heretics, there is no question but the Socinians are much abler Disputants than the Arians and Eunomians were of old : They have collected every thing that can look like an Argument ; they have critically canvass'd every Text of Scripture which anciently was not fo Grammatically understood as now it is, and have spared no Pains nor Art to wrest every thing that, with any Shew of Reason, could be drawn to their Side : They have refined upon the Philosophical Notions of God, and of his Attributes; and have taken great Care not to confound their Readers, or themselves, with Want of Method, or a Multiplicity of Words. Such able Adversaries have not failed of as able Opponents. And when Men of Skill manage any Difpute, whatfoever it be, they will teach one another the Art of Reafoning, even though beforehand they flould not well have underflood it, if their Debates continue to any length. Whence also it has followed, that though these Great Men, who have defended our Faith against such subtile Adversaries, would have thewn their Skill equally upon any other Subject which they might have under-

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undertaken; yet upon these Questions, the Truth would otherwise never have been so perfectly known.

And here it ought to be observed, That the Art of making Controversies easte and intelligible, even though the Arguments fhould be all the fame that had formerly been urged, fhews much greater Skill, and a more thorough Understanding of those Matters, than had been difcovered before: For, he that makes another understand a thing in few words, has a more clear and comprehensive Knowledge of that thing, than another Man who uses a great many. Such a Man's Excursions, if he has a mind at any time to go out of the way, or to enlarge, for the eafe of those who love to have things expressed in an Homeletical manner. will never tire ; because, having his Point ftill in view, he will take care that his Readers or Auditors shall always know where he is. Hence it is, that there are many Sermons in our Language, upon the most abstrufe Questions in the Chri-Itian Religion, wherein English Readers, who have never read Fathers nor School-men, whole Heads have never been fill'd with Terms of Art, and Difinctions, many times, without a difference, may both in few and clear Producee politions

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politions, know what they are to believe, and at the fame time know how to defend it. Hereby, in all our Controversies with Papists, Socinians, and Disfenters, many admirable Discourses have been written, wherein one fees the Question rightly flated, prefently brought to an Head, and accurately proved by fuch Arguments as its particular Nature may require. It cannot be denied, but a good deal of this Methodical Exactness was at first owing to the School-men; but they are Moderns here : And if their Writings have fome Excellencies, which the elegant Composures of more learned Ages want; this alfo affords us a convincing Argument, that Mankind will, in fomething or other, be always improving; and that Men of working Heads, what Subject foever they handle, though they live in Times when they have none but barbarous Patterns to copy after, will do many things which politer People did not know, or elfe over-look'd.

Upon this Occasion, I cannot but take notice, that the Moderns have made clearer and shorter Institutions of all manner of Arts and Sciences, than any which the Ancients have left us. I have already instanced in the Method whereto all the Parts of Natural History have been reduced a

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duced : It is evident, That Method in all those Things, must be the Effect of a Comprehensive Knowledge of the Bodies fo ranged, and of a Nice Comparison of every feveral Body and Animal one with another, fince otherwife their mutual Differences and Agreements cannot poffibly be adjusted; the fame has been done in Medics and Surgery, in Anatomy, in Chymistry, in all Parts of Physics and Mathematics : How confused, many times, and always lax, are Galen's Anatomical Difcourfes, in comparison of Bartholin's, Diemerbroek's, and Gibson's ? Monsieur Perrault has observed already, (c) that (c) Parale Aristotle expressed himself so obscurely in lele des Anhis Physical Discourses, that his Meaning des Mois almost as variously represented, as there dernes, Dihave been Commentators who have writ- alog. III. ten upon him; whereas no Man ever - 257. doubted of the precise Meaning of the Writings of Des Cartes and Rohault, tho' all Men are not of their Opinion. In Mathematics the thing is yet more visible : How long and tedious are Euclid's Demonstrations, either in Greek, or as they are Commented upon by Clavius, in Comparison of Tacquet's or Barrow's ? Tacquet has made Astronomy intelligible, with a very little Help, which before was not to be attained without a Master, and abun-Dd dance

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dance of Patience; the fame has Varenius done in the Mathematical Part of Geography: Tacquet, in Practical Geometry, Optics, and Catoptrics. The Doctrine of the Conic Se-Stions, in Apollonius Pergæus, is so intricate, the Demonstrations are fo long, and fo perplexed, that they have usually deterred all but First-Rate Geometers : This, Pensioner De Witt has made so easie, in his Elements of Curve Lines, (d), that it the laft E- is readily maftered by any Man who has read the First Six Books of Euclid. Such Abridgments fave a great deal of Labour, and make Knowledge pleafant to those who, in the laft Age, were fo exceedingly frightned with the Thoughts of the Difficulty of these Studies, that Sir Henry Savile made as formal a Business of his Prælections upon the Definitions, Axioms, and Eight First Propositions of the First Book of Euclid, which may be thoroughly comprehended, by a Man of ordinary Parts, in Two Hours time, by the help of Tacquet's Elements, as a Man would now of Lectures upon the hardeft Propolitions, in Mr. Newton's Mathematical Principles of Natural Philosophy. To these judicious Abridgments, the wonderful Encrease of this part of Knowledge, for these last LXX Years, is in a great measure to be attributed; and though Methodizers and

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and Compilers of Systems have commonly the hard Fate to be undervalued by those who have been Inventors themselves; yet, in Mathematical Sciences, the cafe is fomething different; for things cannot be abbreviated there, without a very exact Knowledge of the Subjects then to be abridged, and brought into one view. In Moral, or Historical Discourses, an Epitomizer immediately fees what is either in it felf fuperfluous, or not to his particular Purpofe; and fo when he has cut it off, what remains, is in fome fort entire, and may be underftood without the reft, fo that there is no harm done : But here that will by no means fuffice ; for the most verbofe Mathematicians have rarely ever faid any thing for Saying fake, theirs being Subjects in which Figures of Rhetoric could have no fort of place; but they made every Conclusion depend upon fuch a Chain of Premises already proved, that if one Link were broken, the whole Chain fell in pieces ; and therefore, he that would reduce those Demonstrations into a narrower Compass, must take the whole Proposition a new in pieces, must turn it feveral ways, must confider all the relations which that Line, or that Solid, has to other Lines or Solids, must carefully have confidered how many feveral Dd 2 Ways

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Ways it can be generated, before he can be able to demonstrate it by a shorter Method, and by other Arguments, than those by which it was proved before : In short, he must, in a manner, be able to invent the Proposition of himself, before he can put it into this new Dress; for which Reason, *Tacquet*, *Barrow*, and *De Witt*, have been reckoned amongst the principal Geometers of the Age, as well as for their other Inventions in Geometry : *Tschirnbaus's Medicina Mentis* will give a clear Idea of many things relating to this Matter.

And now, having gone through the feveral Parts of the Parallel which I proposed at first to make, I shall close all with Sir William Temple's Words, a little al-(e) P. 30. tered : (e) ' Though Thales, Pythagoras, Democritus, Hippocrates, Plato, Aristotle and Epicurus, may be reckoned amongst the First mighty Conquerors of Ignorance, in our World; and though they made great Progresses in the feveral Empires of Science, yet not fo great in very many Parts, as their Successors have fince ' been able to reach. These have pretended to much more, than barely to learn ' what the others taught, or to remember ' what they invented; and being able to ' compais that it felf, have fet up for Authors

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thors upon their own Stocks, and not contenting themfelves only with Commenting upon those Texts, have both copied after former Originals already fet them, and have added Originals of their own in many things of a much greater Value.

CHAP. XXX.

There is no

Reflections upon the Reasons of the Decay of Modern Learning, afsign'd by Sir William Temple.

Having therefore, as I hope, fuffi-ciently proved, that there has not been fuch a Fall in Modern Learning, as Sir William Temple fuppofes, (though in many Particulars it may have fallen fhort of, and in others not out-done the Ancient;) nay, even that, comparatively fpeaking, the Extent of Knowledge is, at this Time, vaftly greater than it was in former Ages; It may feem, perhaps, a needless thing to examine those Reasons which he alledges, of the Decreafe of that, which in the groß has fuffered no Decay. Something, however, I shall fay -01030L Dd 3 to

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to them; because if they do not prove what Sir William Temple designs, yet they will prove at least, what a perfect thing Learning might have been, if it had not met with such Impediments.

(f) P.64, 65.

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The first Blow which he fays (f) that Learning received, was by the Difputes which arose about Religion in Europe, foon after the Revival of Learning in these Parts of the World. There is no doubt, but the Thoughts of many very able Men were taken up with those Controversies ; who, if they had turn'd them with the fame Application to Natural or Civil Knowledge, would therein have done extraordinary things. Yet, confidering all things, it may be justly question'd, whether Learning may not, by these very Difputes, have received either immediately, or occasionally, a great Improvement, or at least, suffered not any confiderable Diminution. For, (1.) It is certain, That whatfoever relates to Divinity as a Science, has hereby been better fcann'd, and more accurately underftood and explained, than otherwife it would ever have been ; and, I fuppofe, this will be readily owned to be one of the most excellent Parts of Knowledge. (2.) It is a question whether a great many of the chiefest Promoters of any Part of this Theolo-

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Theological Knowledge, would, or could have done fo great things, upon any other Subject. Opposition, in general, whets Men's Parts extremely; and that inward Satisfaction which a good Man takes, in thinking that he is employed upon Arguments of greatest Concern to the Souls of Men, inspires him with an Ardour that adds Wings to his native Alacrity; and makes him, in all fuch Cafes, even out-doe himfelf. (3.) When different Parties are once formed, and great Numbers of Youths are conftantly trained up to fucceed the older Champions of their respective Sides ; as these shall drop off, all those after-Comers will not apply their Minds to Studies immediately relating to their own Professions, but here and there one, as his Genius shall lead him, will try to excell in different Ways, for the Glory of his own Party; especially if he sees any of his Adverfaries eminently Famous before him, in those things. Thus Petavius fet himfelf to contradict Joseph Scaliger's Books de Emendatione Temporum, and Scioppius fell upon his other Critical Writings : Whilft Isaac Casaubon concerned himself only with Publishing and Commenting upon Athenæus, Polybius, and Theophrastus, he was complemented by all Sides; but when Dd4

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when once he wrote against the Annals of Cardinal Baronius, he met with numerous Adversaries; and there was scarce a Critic of the Church of Rome, for fome time afterwards, that did not peck at fomething or other in his other Writings. This Emulation eminently appeared in the Order of the Jefuits, the main Defign of whole Institution feems to have been to engross all Learning, as well as all Politics, to themfelves; and therefore we fee fo many extraordinary Men amongst them for all forts of things, thereby to give the World Occasion to think, that there must certainly be fomething more than ordinary in the Constitution of a Body, which every Day produced fuch excellent Perfons. So that if one confiders how far this Emulation went, which even yet is not wholly extinct, it is hard to fay, whether Disputes in Religion have not rather helped to encrease the Stock of Learning, than otherwife; at leaft, one may venture to fay, that they have not diminish'd it.

It is most certain, that the different Political Interests in *Europe*, have done it a mighty Kindness. During the Establishment of the *Roman* Empire, one Common Interest guided that vast Body, and these Western Kingdoms amongst the rest. *Rome*

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was the Center of the Learning of the Weft, as well of their Hopes, and thither the Provinces of this Part of the World had always Refort : Whereas now every Kingdom standing upon its own Bottom, they are all mutually jealous of each others Glory, and in nothing more than in Matters of Learning in those Countries where they have Opportunities to pursue it. About an CL, or CC Years fince, it was effeemed a very honourable Thing to write a true Ciceronian Style : This the Italians pretended to keep to themfelves, and they would fcarce allow that any Man beyond the Alpes, unlefs, perhaps, Longolius, and Cardinal Pole, wrote pure Roman Latin : This made other Nations strive to equal them; and one rarely meets with a Book written at that time upon a Subject that would bear the Elegancies of Style in bad Latin. When Critical Learning was in fashion, every Nation had fome few Great Men at the fame time, or very near it, to fet against those of another : Italy boasted of Carolus Sigonius, Fulvius Urfinus, and Petrus Victorius; France had Joseph Scaliger, Isaac Casaubon, Cujacius, Pithæus, Brif-Sonius, and feveral more; Switzerland produced Gesner, for that and almost every thing elfe ; Germany had Leopardus, Gruter, Putschius, A149 L

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Putschius, and others; the Low Countries had Justus Lipsus ; England had Sir Henry Savile; every Country had fome Great Men to keep up its Glory in those things which then were in greateft requeft. In this last Age, Mathematical and Phylical Sciences feem to have been the Darling Studies of the Learned Men of Europe : there also the fame Emulation has been equally visible. When Great Britain could flew fuch Men as my Lord Bacon, my Lord Napier (the Inventor of Logarithms.) Mr. Harriot, Mr. Oughtred, and M. Horrox ; Holland had Stevinus, who first found out Decimal Arithmetic, and Snellius : France could reckon up Des Cartes, Merfennus, Fermat, and Gaffendi ; Italy had Galileo, Torricellius, and Cavallerius ; Germany, Kepler; and Denmark, not long before, Tycho Brahe. When afterwards the Philosophers of England grew numerous, and united their Strength, France alfo took the Hint, and its King fet up a Royal Society, to Rival ours. The Duke of Tuscany had fet up already, at Florence, the Academy del Cimento, whole Members employed themselves in pursuing the fame Methods. In Germany, an Academy of the fame nature has been raifed. Even Ireland has had its Philosophical Society. From all which, fuch Swarms of Great Men, in every

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every Part of Natural and Mathematical Knowledge, have within these few Years appeared, that it may, perhaps, without Vanity, be believed, that if this Humour lasts much longer, and learned Men do not divert their Thoughts to Speculations of another kind, the next Age will not find much Work of this kind to do : For this fort of Learning has fpread where-ever Letters have had any Encouragement in Europe, fo fuccessfully, that even the Northern Kingdoms have had their Bartholin's, their Borrichius's, their Rudbek's, their Wormius's, and their Hevelius's, who have put in for that Prize which the Inhabitants of warmer Climates feemed already in possession of. This has occafion'd the Writing of abundance of Books, to vindicate the Glory of every great Invention to fome eminent Man of that Country that the Authors of those Books belonged to. Which Difputes, though many times very pedantically managed, and with an Heat mifbecoming Learned Men, yet has had this good Effect, that while fome were zealous to fecure the Glory of the Invention of Things already discovered, to their own Countries; others were equally follicitous to add a more undifputed Honour to them, by new Inventions, which

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(s) P. 67,

- 71.

Another Reason of the Decay of Learning, according to Sir William Temple (g), is, the want of Protection from Great Men, and an unfatiable Thirst after Gain. now grown the Humour of the Age. That Princes do not now delight to talk of Matters of Learning in their public Conversations, as they did about an CL Years ago, is but too evident: When Learning first came up, Men fansied that every thing could be done by it, and they were charm'd with the Eloquence of its Professors, who did not fail to set forth all its Advantages in the most engaging Drefs. It was fo very modifh, that the Fair Sex feemed to believe that Greek and Latin added to their Charms; and Plato and Aristotle untranslated, were frequent Ornaments of their Clofets. One would think by the Effects, that it was a proper Way of Educating them, fince there are no Accounts in Hiftory of fo many truly great Women in any one Age, as are to be found between the Years MD and MDC. This Humour in both Sexes abated by degrees; and the Great Men being either dilgusted with the Labour that was requifite to become thoroughly Learned, or with the frequent Repetitions of the fame

Ancient and Modern Learning.

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fame things, Business and Diversions took up their Thoughts, as they had done formerly. But yet, in the main, the Learned Men of this Age have not fo much reafon to think themselves ill used, as it is commonly thought. What by Fellowships of Colleges, and Ecclefiaftical Preferments. here in England; and by the fame fort of Preferments, added to the Allowances in feveral Monastical Orders, in Popish Countries, there are very fair Settlements for Men of Studious and Sedentary Lives; and innumerable Inftances can be given, in these two last Ages, of the excellent Uses which great Numbers of Men have made of them : So that every fuch Preferment beftowed upon any learned Man, upon the fcore of his Merit, by Princes, or Great Men, in whole Gift they were, is an Inftance of their Beneficence to Men of Letters: And whether a Man is confidered by a Penfion out of a Princes Exchequer, or by the Collation of a Preferment in that Prince's Gift, it is, to a Man who enjoys it, the felf-fame thing. Neither have Examples been wanting in the prefent Age, of Sovereign Princes who have made it as much their Business to encourage Learned Men, as, perhaps, in any of the former, that are fo much commended for that very Reason. Christina Queen

Reflections upon

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Queen of Sweden, who, in other respects, was by no means the Glory of her Sex, did, whilft she liv'd at Stockholm, fend for the learnedest Men of Europe to come to her, that fhe might converse with them about those things wherein they were most excellent. Des Cartes, Salmasus, Bochart, Nicolas Heinfus, Ifaac Voffius, were of that number: And her Profusenes. which knew no bounds, was fcarce in any thing more visible, than in her Marks of Respect to Men of Letters. Afterwards, when she setled at Rome, her Palace was always an Academy of the Virtuoh of that City. The prefent French King, whilft Monfieur Colbert liv'd, took a fingular Pride in fending Prefents to the most celebrated Scholars of Europe ; without regarding whether they were his own Subjects, or of his own Religion, or no. This he did purely for his Glory, the Prin-(b) P. 68. ciple which Sir William Temple (b) fo exceedingly applauds. His own Protestant Subjects, before he involved them in one Common Ruine, tafted of his Liberality of that kind, upon Occasion: And whatfoever his other Actions are, or have been, yet his extraordinary Care to breed up his Son to Learning, his crecting of Academies for Arts and Sciences at Paris, and his frequent Bounties

Ancient and Modern Learning.

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ties to Men of Letters, justly require that, upon this account, he fhould be mention'd with Honour. Cardinal de Richelieu, Cardinal Mazarini, Monfieur Fouquet, and Monfieur Colbert, though no Sovereign Princes, yet had Purfes greater than many of them. Cardinal de Richelieu was himfelf a Scholar ; and all of them were eminently Favourers of Learned Men. I have mention'd my own Country last, that I might once more observe, that it was a Prince of our own, who founded the ROTAL SOCIETT, (i) whole Studies, (i) P. 57: Writings and Productions, though they have not out-shined or eclipsed the Lyczum of Plato, the Academy of Aristotle, the Stoa of Zeno, or the Garden of Epicurus; becaufe they were neither written at the fame Time, nor, for the most part, upon the fame Subjects ; yet will always help to keep alive the Memory of that Prince who incorporated them into a Body, that fo they might the easier do that by their Joint-Labours, which fingly would have been, in a manner, impossible to be effected.

The laft of Sir William Temple's Reafons of the great Decay of Modern Learning, (k) is *Pedantry*. The urging of (k) P.76which, is an evident Argument, that his Difcourfe is levelled against Learning, not

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not as it stands now, but as it was I or Ix Years ago. For the New Philosophy has introduced fo great a Correspondence between Men of Learning and Men of Business, which has also been encreased by other Accidents amongst the Masters of other learned Professions, that that Pedantry which formerly was almost univerfal, is now in a great measure dif-used; efpecially amongst the Young Men, who are taught, in the Universities, to laugh at that frequent Citation of Scraps of Latin, in common Discourse, or upon Arguments that do not require it; and that naufeous Oftentation of Reading and Scholarship in public Companies, which formerly was fo much in fashion. Affecting to write politely in Modern Languages, especially the French and ours, has also not a little helpt to lessen it; becaufe it has enabled abundance of Men who want Academical Education, to talk plaufibly, and fome exactly, upon abundance of learned Subjects. This also has made Writers habitually careful to avoid those Impertinences which they know would be taken notice of, and ridiculed; and it is probable, that a careful perufal of the fine new French Books, which of late Years have been greedily fought after by the politer fort of Gentlemen and Scholars,

Ancient and Modern Learning. 417 No the set lars, may, in this Particular, have done a great deal of good. By this means, and by the help alfo of fome other concurrent Mara Caufes, those who were not learned them-Webers felves, being able to maintain Disputes with those that were; forced them to talk 2 12 more warily, and brought them by little at in and little to be out of countenance at 意思 that vain thrufting of their Learning into 马脑 every thing, which before had been but 0 Ages. Whether Knowledge w.sldniv oot in the next Age, proportionably as it has Taps a done in this, is a Queftion not eafly deupon a; zd cided. It depends upon a great many Circumftances ; which, fingly, will be ig ind ineffectual, and, which no Man can now which be altired, will ever meet. I here leems Af-Reafon, indeed, to feat that it may decay, Lan both because Ancient Learning is too STDO much fudied in Modern Books, and taken it; be upon truft by Modern Writers, who are lenvio nor enough acquainted with Antiquity, 山山 MODE their orand Millales : and heundate caule Natural and Mathematical Know-IS mit tedge, wherein chieffy the Moderns are id the to be Rudled as Originals, begin to the wook idi neglected by the generality of thole who would fee up for Scholars. For the Huof th mour of the Age, as to thole things, is of vifibly altered from what it was xx or fab XXX Years ano : So that though the State ROIAI 15g

more warily, and brought them by little His feems to me to be the prefent State of Learning, as it may be compared with what it was in former Ages. Whether Knowledge will improve in the next Age, proportionably as it has done in this, is a Question not eafily decided. It depends upon a great many of all Circumstances ; which, fingly, will be Fortur ineffectual, and, which no Man can now ulelels be affured, will ever meet. There feems Anima Reafon, indeed, to fear that it may decay, think n both because Ancient Learning is too low the much studied in Modern Books, and taken Search upon truft by Modern Writers, who are thole not enough acquainted with Antiquity, Love to correct their own Mistakes ; and be-Studies caufe Natural and Mathematical Know-Phylicia ledge, wherein chiefly the Moderns are Tounds to be studied as Originals, begin to be do once neglected by the generality of those who will be would fet up for Scholars. For the Humitato mour of the Age, as to those things, is bduftr vifibly altered from what it was xx or te, is XXX Years ago : So that though the te Par ROTAL

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ROTAL SOCIETI has weathered the rude Attacks of fuch fort of Adverfaries as Stubbe, who endeavoured to have it thought, That Studying of Natural Philosophy and Mathematics, was a ready Method to introduce Scepticifm at least. if not Atheifm, into the World : Yet the fly Infinuations of the Men of Wit, That no great Things have ever, or are ever like to be perform'd by the Men of Gresham, and, That every Man whom they call a Virtuolo, must needs be a Sir Nicolas Gimcrack : together with the public ridiculing of all those who spend their Time and Fortunes in feeking after what fome call useless Natural Rarities; who diffect all Animals, little as well as great ; who think no part of God's Workmanship below their Aricteft Examination, and niceft Search : have fo far taken off the Edge of those who have opulent Fortunes, and a Love to Learning, that Phyfiological Studies begin to be contracted amongst Phyficians and Mechanics. For nothing wounds fo much as a Jeft; and when Men do once become ridiculous, their Labours will be flighted, and they will find few Imitators. How far this may deaden the Industry of the Philosophers of the next Age, is not easie to tell; for almost all the Parts of Mathematical and Natural Know-Ee 2

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Knowledge require a good deal of Time -and Pains, of Industry and Attention, before a Man can thoroughly relifh them : And those who do not, rarely know their Worth, and confequently do very feldom pafs a right Judgment upon them, However, be the Studies of the Men of the next Age what they will, the Writings of the Learned Men of the prefent Time will be preferved; and as they have raifed a nobler Monument to the Memory of Archimedes and Diophantus, of Hippocrates and Aristotle, of Herophilus and Galen, by Improving their Inventions, Ithan had been raifed for a Thouland Years before; fo fome future Age, though, perhaps, not the next, and in a Country now poffibly little thought of, may do that which our great Men would be glad to fee done ; that is to fay, may raife real Knowledge, upon the Foundations laid in this our Age, to the utmost poffible Perfection to which it can be brought by mortal Men in this imperfect flate, and thereby effectually immortalize the Memories of those who laid those Foundations, and collected those Materials which were fo ferviceable to them in compleating the noble Work.

But this is what every Man would gladly hope might be referved for his own Pofterity,

Ancient and Modern Learning.

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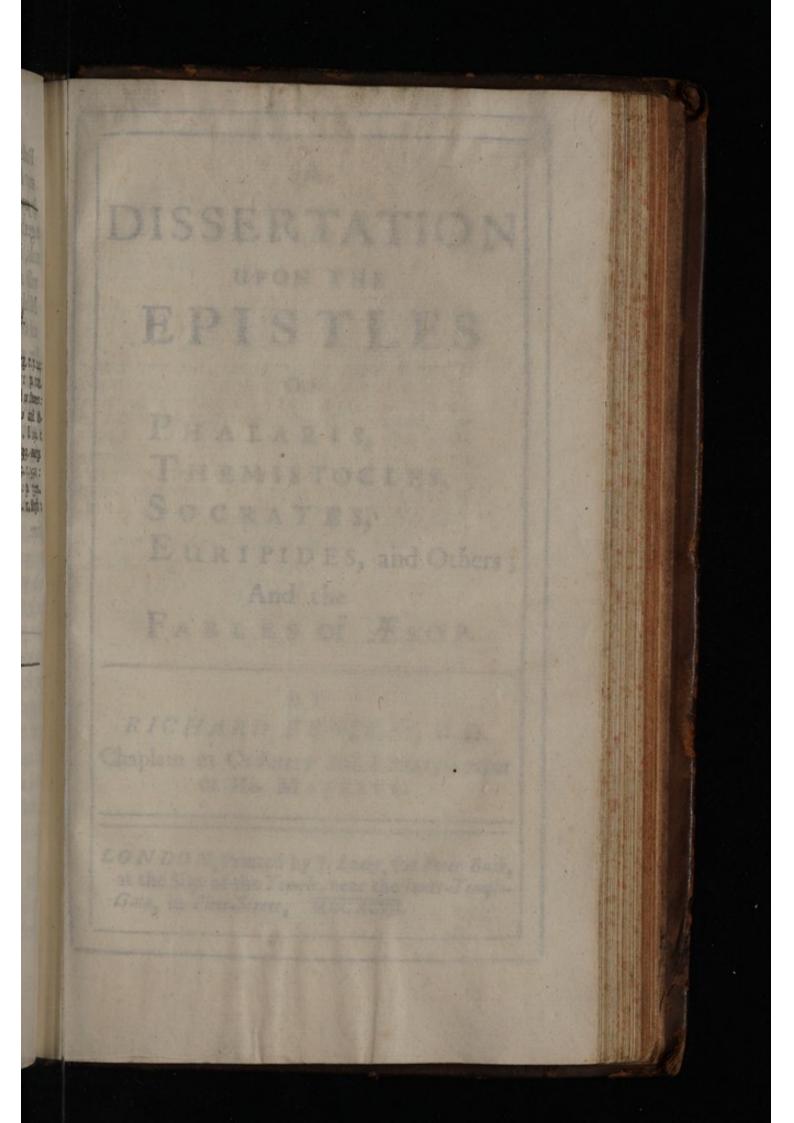
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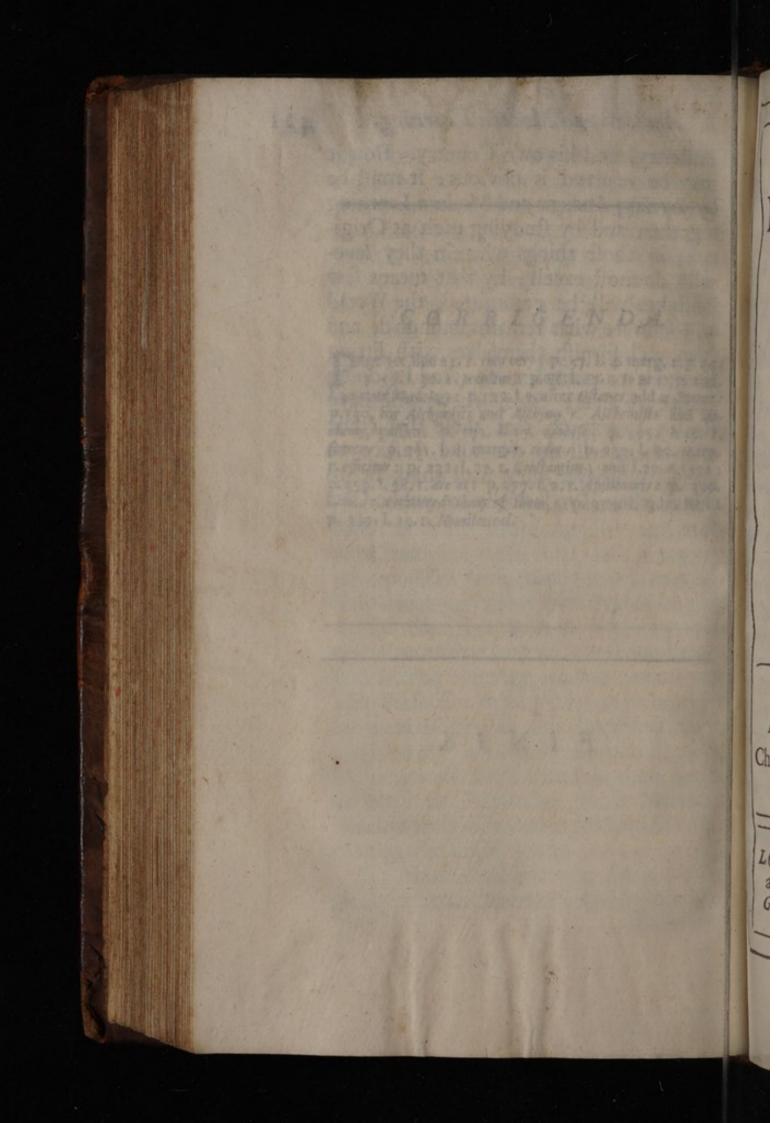
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Posterity, and his own Country. How it may be referved is obvious : It must be by joyning Ancient and Modern Learning together, and by fludying each as Originals, in those things wherein they feverally do most excell; by that means few Mistakes will be committed, the World will foon fee what remains unfinish'd, and Men will furnish themselves with fitting Methods to compleat it : And by doing Justice to every Side, they will have Reason to expect, that those that come after them will do the fame Justice to them, whenever they shall think fit to fubmit their Productions to public Cenp. 299. l. 19. r. Homiletical. fure.

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Ancient and Modern Learning.

Pofferity, and his own Country. How it may be referved is obvious: It must be together, and by fludying each as Origiands, in thole things wherein they levemily do most excell; by that means lew Missing the best of the commeted the World Missing the best of the commeted the World will the D. N. D. A. D. A. M. D. A. Missing the state of the commeted the World will the best of the state of the state of the the state of the state of the state of the state will the the state of the state will the state of the state will be the state of the state state of the state of the state of the state of the state state of the state state of the




DISSERTATION UPON THE EPISTLES

A

OF

PHALARIS, THEMISTOCLES, SOCRATES, EURIPIDES, and Others; And the FABLES OF ÆSOP.

BY *RICHARD BENTLET*, D. D. Chaplain in Ordinary and Library-keeper to His MAJESTY.

LONDON, Printed by J. Leake, for Peter Buck, at the Sign of the Temple, near the Inner-Temple-Gate, in Fleet-Street, MDCXCVII.

Sir DISSERTATION EPISTUES PHALARIS, HEMISTOCLES SOCRATES Ast for all o EURIPIDES, and Others ; And the MABLES OF MSOF ther Made Y S . 87 Van See. ane he m 227 Dive Atti NERT.

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Sir William Temple's Effay upon Ancient and Modern Learning, pag. 58.

I may perhaps be further affirmed, in favour of the Ancients ; That the oldest Books we have, are still in their kind the best. The two most Ancient that I know of in Profe, among those we call Profane Authors, are Æsop's Fables, and Phalaris's Epistles, both living near the same time, which was that of Cyrus and Pythagoras. As the first has been agreed by all Ages since for the greatest Master in his kind; and all others of that fort have been but Imitations of his Original : So I think the Epistles of Phalaris to have more Race, more Spirit, more Force of Wit and Genius, than any others I have ever seen either Ancient or Modern. I know, Several Learned Men (or that ufually pass for such, under the Name of Critics) have not esteemed them Genuine; and Politian, with some others, have attributed them to Lucian : but I think he must have little Skill in Painting, that cannot find out this to be an Original. Such Diversity of Passions, upon such Variety of Actions and Passages of Life and Government ; Juch Freedom of Thought, Juch Boldness

(4)

nefs of Expression; such Bounty to his Friends, such Scorn of his Enemies; such Honour of Learned Men, such Esteem of Good; such Knowledge of Life, such Contempt of Death; with such Fierceness of Nature, and Cruelty of Revenge, could never be represented but by him that possessed them. And I esteem Lucian to have been no more capable of Writing, than of Acting what Phalaris did. In all One writ, you find the Scholar or the Sophist; and all, the Other, the Tyrant and the Commander.

Epillics, barn living near the fame stone,

which was that of Cyrus and Pythagoras. "As the first has been agreed by all Ages since for the greatest Master in his kind 4 and all others of that fart have been but Imita-

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The EPISTLES of PHALARIS, and others; and the FABLES of ÆSOP.

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Remember, that difcourfing with you upon this Paflage of Sir W. T. (which I have here fet down,) I happen'd to fay, That with all Deference to fo great an Authority, and under a juft Awe of fo fharp a Cenfure, I believed it might be even demonstrated, that the *Epiftles* of *Phalaris* are Spurious, * A 3 and

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and that we have nothing now extant of Æ sop's own Composing. This casual Declaration of my Opinion, by the power, of that long Friendship that has been between us, you improved into a Promife. That I would fend you my Reafons in Writing, to be added to the New Edition of your Book : believing it, as I suppose. a confiderable Point in the Controverfie you are engaged in. For if it once be made out, that those Writings your Adverfary fo extolls, are Supposititious, and of no very long Standing; you have then His and his Parties own Confession, That fome of the Later Pens have outdone the Old ones in their kinds : And to others, that have but a mean Effeem of the Wit and Stile of those Books, it will be a double Prejudice against him, in your favour, That he could neither difcover the true Time, nor the true Value of his Authors.

Thefe, I imagine, were your Thoughts; when you engaged me to this, that I am now doing. But I muft take the freedom to profefs, that I write without any view or regard to your Controversie; which I do not make my own, nor presume to interpose in it. 'Tis a Subject so nice and delicate, and of such a mixed and diffused nature, that I fam content to make the best

and Ælop's Fables.

best Use I can of both Ancients and Moderns, without venturing with you, upon the hazard of a wrong Comparison, or the envy of a true one.

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That fome of the Oldest Books are the best in their kinds, the fame Perfon having the double Glory of Invention and Perfection; is a thing observed even by some of the Ancients (a). But then the Authors (a) Dion. they gave this Honour to, are Homer and Chryloft. Archilochus, one the Father of Heroic Poem, Orat. 33. P. 397. and the other of Epode and Trochaic. But the choice of Phalaris and Æsop, as they are now extant, for the two great inimitable Originals, is a piece of Criticisin of a peculiar Complexion, and must proceed from a Singularity of Palate and Judgment.

To pais a Centure upon all kinds of Writings, to thew their feveral Excellencies and Defects, and efpecially to affign each of them to their proper Authors, was the chief Province and the greateft Commendation of the Ancient Critics. And it appears from those Remains of Antiquity that are left us, that they never wanted Employment. For to forge and counterfeit Books, and father them upon Great Names, has been a Practice almost as old as Letters. But it was then most of all in fashion, when * A 4 the

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(b) Galen. the (b) Kings of Pergamus and Alexandria, in Hippoc. rivalling one another in the Magnificence Hominis, and Copiousness of their Libraries, gave Comm. 2. great rates for any Treatifes that carried P. 17. Ed.

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great rates for any Treatifes that carried the names of celebrated Authors. Which was an Invitation to the Scribes and Copyers of those Times, to enhance the Price of their Wares by afcribing them to Men of Fame and Reputation; and to fupprefs the true Names, that would have yielded lefs Money. And now and then even an Author, that wrote for Bread, and made a Traffic of his Labours, would purpofely conceal himfelf, and perfonate fome old Writer of eminent Note; giving the Title and Credit of his Works to the Dead, that himfelf might the better live by them. But what was then done chiefly for Lucre, was afterwards done out of Glory and Affectation, as an Exercise of Stile, and an Oftentation of Wit. In this the Tribe of the Sophifts are principally concerned; in whofe Schools it was the ordinary task to compose HOomorias, to make Speeches and write Letters in the Name and Character of fome Heroe, or great Commander or Philosopher; Tivas av Einoi Noyes, What would Achilles, Medea, or Alexander Say in fuch or fuch Circumstances ? Thus Ovid, we fee, who was bred up in that way, writ Love Letters in

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in the Names of Penelope and the reft. 'Tis true, they came abroad under his own Name; becaufe they were written in Latin and in Verfe, and fo had no colour or pretence to be the Originals of the Græcian Ladies. But some of the Greek Sophifts had the Success and Satisfaction to fee their Effays in that kind pass with fome Readers for the genuine Works of those they endeavoured to express. This, no doubt, was great Content and Joy to them; being as full a Testimony of their Skill in Imitation; as the Birds gave to the Painter, when they peck'd at his Grapes. 'One of them (c) indeed, has dealt (c) Mulleringenuoufly, and confess'd that he feign'd Briff. Brui. the Answers to Brutus, only as a Trial of Skill: but most of them took the other way, and concealing their own Names, put off their Copies for Originals ; preferring that filent Pride and fraudulent Pleafure, though it was to die with them, before an honeft Commendation from Pofterity for being good Imitators. And to speak freely, the greatest part of Mankind are fo eafily imposed on in this way, that there is too great Invitation to put the trick upon them. What clumfie Cheats, those Sibylline Oracles now extant, and Aristeas's Story of the Septuagint, passed without controul even among very learned Men. And

And even some Modern Attempts of this kind have met with Success not altogether difcouraging. For though Annius of Viterbo, after a Reputation of fome Years. and Inghiramius immediately, were shamed out of all Credit : yet Sigonius's Effay de Confolatione, as coming from a skilful Hand, may perhaps pass for Cicero's with fome, as long as Cicero himfelf shall last. Which I cannot prefage of that bungling Supplement to Petronius (I mean not that from Traw, but the pretended one from Buda) that Scandal to all Forgeries: though, I hear, 'tis at prefent admired as a genuine Piece by fome that think themfelves no ordinary Judges,

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OF

PHALARIS'S EPISTLES.

Hat Sophift, whoever he was, that wrote a small Book of Letters in the Name and Character of Phalaris, (give me leave to fay this now, which I shall prove by and by) had not fo bad a hand at Humouring and Perfonating, but that feveral believed, it was the Tyrant himfelf that talked fo big, and could not discover the Ass under the Skin of that Lion. For we find Stobaus (d), quoting (d) stob. the 38, and 67, and 72, of those Epistles, under the Title of Phalaris. And Suidas, in the Account he gives of him, fays he has wrote most admirable Letters, imporas Daunasias man, meaning those that we are speaking of. And Johannes Tzetzes, a Man of much rambling Learning, has many and large Extracts out of them, in his Chiliads; afcribing them all to the Tyrant whofe Livery they wear. Thele three, I think, are the only Men among the Ancients, that make any mention of them : but fince they give not the least hint of any Doubts concerning their Author ; we may conclude, that all the Scholars

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Scholars of those Ages received them as true Originals; fo that they have the general Warrant and Certificate for this last Thousand Years before the Restoration of Learning. As for the Moderns ; befides the Approbation of those smaller Critics, that have been concerned in the Editions of them, and cry them up of course; some very Learned Men have espoused and maintained them, such as (e) Hifto-Thomas Fazellus(e), and Jacobus Cappellus (f). re Sicula, Even Mr. Selden himfelf (g) draws an Argument in Chronology from them, without discovering any Suspicion or Jealousie Or Exotica, of a Cheat. To whom I may add their (g) Marm. lateft and greateft Advocate; who has honoured them with that most high Character, prefixt to this Treatife.

P. 118.

(f) Hifto-

ria Sacra

P. 249.

Arundel.

p. 106.

Others, indeed, have fhewn their Distrust of Phalaris's Title to them; but are content to declare their Sentiment without affigning their Reafons. Phalaris, or some body else, [fays Cælius Rhod. lib. iii. c. 7.] The Epistles that go under the Name of Phalaris, [Menagius ad Laert. p. 35.] Some name the very Perfon, at whofe door they lay the Forgery. Lucian, whom they commonly mistake for Phalaris, [fays Ang. Politianus, Epist. 1.] The Epistles of Phalaris, if they are truly his, and not rather Lucians, [Lilius Greg. Gyraldus, Poet. Hift.

and Æsop's Fables.

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Hift. p.88.] who, in another place, [p.332.] informs us, that Politian's Opinion had generally obtained among the Learned of that Age : The Epistles, fays he, of Phalaris, which most People attribute to Lucian. How judicioufly they afcribe them to Lucian, we shall see better anon; after I have examin'd the Cafe of Phalaris, who has the Plea and Right of Possession. And I shall not go to disposses him, as those have done before me, by an Arbitrary Sentence in his own Tyrannical Way; but proceed with him upon lawful Evidence, and a fair, impartial Trial. And I am very much miftaken in the Nature and Force of my Proofs, if ever any Man hereafter, that reads them, perfift in his old Opinion of making Phalaris an Author.

The Cenfures that are made from Stile and Language alone, are commonly nice and uncertain, and depend upon flender Notices. Some very fagacious and learned Men have been deceived in those Conjectures, even to ridicule. The great Scaliger published a few lambics, as a choice Fragment of an old Tragedian, given him by Muretus; who soon after confess'd the Jeft, that they were made by himself. Boxhormius writ a Commentary upon a small Poem De Lite, supposed by him to be some ancient

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ancient Author's; but it was foon difcover'd to be Michael Hospitalius's, a late Chancellor of France. So that if I had no other Argument, but the Stile, to detect the Spuriousnels of Phalaris's Epistles; I my felf, indeed, should be fatisfied with that alone, but I durft not hope to convince every body elfe. I shall begin therefore with another fort of Proofs, that will affect the most flow Judgments, and affure the most timid or incredulous.

The Time of Phalaris's Tyranny cannot be precifely determined, fo various and defective are the Accounts of those that write of him. Eulebius fets the Beginning of it Olymp. xxx1, 2. Phalaris apud Agrigentinos tyrannidem exercet; and the End of it Olymp. xxxvII, 2. Phalaridis tyrannis destructa. By which Reckoning he governed xxvIII Years. But St. Hierom, out of fome unknown Chronologer (for that Note is not extant in the Greek of Eusebius) gives a different Time of his Reign, above LXXX Years later than the other; Olymp. LIII, 3. or as other Copies read it, LII, 2. Phalaris tyrannidem exercuit annos xvi. Which is agreeable to Suidas, who places him, xara + vB. orumada, about the LII Olympiad. If the former Account be admitted, the Cheat is manifest at first fight :

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fight : for those Letters of *Phalaris* to Stefichorus and *Pythagoras* must of necessity be false. Because Stefichorus was but vi Years old at that supposed time of *Phalaris's* Death ; and *Pythagoras* was not taken notice of in *Greece* till LXXX Years after it. But for the sake of *Aristotle* and *Jamblichus*, who make these Three to be Contemporaries, and that I may prevent all possible Cavils and Exceptions ; I am willing to allow the latter Account, the more favourable to the pretended Letters ; his Government commencing Olymp. L111, 3. and expiring after XVI Years, Olymp. LVI1, 3.

I. In the last Epistle, to those of Enna, a City of Sicily ; Phalaris fays, the Hyblenses and Phintienses had promised to lend him Money at Intereft; Of 5 STEgenuto daveiser, as YGRaios 2 Divtieis. The Sophift was careful to mention fuch Cities as he knew were in Sicily. For fo Ptolemee places Divria there; and Antoninus, Phintis; and Pliny, Phintienses. But it is ill luck for this Forger of Letters, that a Fragment of (b) Diodorus, a Sicilian, and well (b) Diod. acquainted with the Hiftory of his Coun- P. 867. trey, was preferved to be a Witness against him. That excellent Writer informs us. that Phintias, Tyrant of Agrigentum, (the very Place where Phalaris was before

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fore him) first built Phintia, calling it by his own Name ; Kriger Durias Tohin, evolucious and that this was done, while the Romans were at War with King Pyrrhus, that is, Olymp. cxxv; which is above CCLXX Years after Phalaris's Death, taking even the later Account of St. Hierom. A pretty Slip this of our Sophift, who, like the reft of his Profession, was more vers'd in the Books of Orators than Hiftorians, to introduce his Tyrant borrowing Money of a City, almost ccc Years before it was named or built.

II. In the xcII Epistle, he threatens Stefichorus the Poet, for raifing Money and Soldiers against him at Aluntium and Alæsa, ny eis Arevrior ny eis Arawar: and that perhaps he might be fnapt, before he got home again from Alasa to Himera, 22 Adaions eis Integer. What a pity 'tis again, that the Sophift had not read Diodorus : for he would have told him, that this Alæsa was not in being in Phalaris's (i) Diod. days. (i) It was first built by Archonides, a Sicilian, Olymp. xciv, 2. or, as others fay, by the Carthaginians, about Two Years So that here are above cxx before. Years flipt, fince the latest period of Phalaris. And we must add above a dozen more to the reckoning, upon the Sophift's own

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own fcore : For this Letter is fuppofed to bear date before Stefichorus and Phalaris were made Friends ; which was a dozen Years, as he tells his Tale (k), before (k) Epift. Stepchorus died; and Phalaris he makes 103. to furvive him. I am aware, that the fame Author fays, (1) that there were (1) Diod. other Cities in Sicily, called Alasa : But it is evident from the fituation, that this Alasa of Archonides is meant in the Epistles; for this lies on the fame Coast with Himera and Aluntium, (to which two the Sophift here joins it,) and is at a small distance from them. And indeed there was no other Town of that name in the days of the Sophift, the reft being ruin'd long before.

III. The LXX Epifile gives an account of feveral rich Prefents to Polyclitus the Messenian Physician, for doing a great cure upon Phalaris. Among the reft, he names ποτηρίων Θηρικλείων ζεύγη δέκα, ten couple of Thericlean cups. But there is another thing, belides a pretty Invention, very uleful to a Lyar; and that is, a good Memory. For we will suppose our Author to have over known fomething of these Cups, the time and the reason they were first called fo; but that he had unhappily forgot it, when he writ this Epiftle. They were large Drinking-Cups, of a peculiar B shape,

shape, to called from the first Contriver of them, one Thericles a Corinthian Potter. Pliny, by miftaking his Author Theophrastus, makes him a Turner, [lib. xvi. cap. 40.] Celebratur & Thericles nomine. calices ex terebintho solitus facere torno. The words of Theophrastus are these, [Hift. Plant: 1. v. cap. 4.] TOEVEUEDay of it auting (reeminds) nurinas Oneinheiss, wise und? an eve dralvervar topos tas requires; That the Turners make Thericlean Cups of the Turpentine tree, which cannot be distinguished from those made by the Potters. Here can nothing be gathered hence, to make Thericles himfelt a Turner; for after he had first invented them, they were called Thericlean, from their shape, whatsoever Artificer made them, and whether of Earth, or of Wood, or of Metal. But as I faid, by the general confent of Writers, we must call him a Potter. Hefychius, Ongin AuG., NUTING EIS Q, 2000 ONCULAUS REQUEUS. Lucian [in Lexiphanes, pag. 960.] Kal 211yern Tronna, oia Oneuxins witha. Etymologicon M. OnpixAcion xUAIRa, no Acysoi, aparta recquers Oneranis Errolnoer, as ONTIV ESBENG., & & means Kamadias Toinths. The words of Eubulus, whom he cites, are extant in Athenaeus, [lib. x1. p.471.]

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And again ; Ω γαια κησαμῦτ', ή σε Θηεικλύς ποτε Εττύξε, κοίλης λαγόνος εὐρύνας βάθος.

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Now the next thing to be enquired, is the Age of this Thericles; and we learn that from Athenaus; one Witness indeed. but as good as a multitude in a matter of this nature, [pag. 470.] Karasnevásay Néyetas & nutina Tautov Oneunting & Kopin-Si a necameris, reports Tois xporois nata * Kounge Aersopann; This Cup, fays he, was invented by Thericles the Corinthian Potter, who was contemporary with Aristophanes the Comædian. And in all probability, he had this indication from fome Fable of that Poet's, now loft; where that Corinthian was mention'd, as one then alive. But all the Plays that we have left of his, are known to have been written and acted between the LXXXIIX and XCVII Olympiads, which is an interval of xxxvr years. Take now the very first year of that number; and Thericles, with the Cups that had their appellation from him, come above cxx years after Phalaris's death.

But I must remove one Objection that may be made against the force of this Argument : for some ancient Grammarians give a quite different account, why such B 2 Cups

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Cups were called Thericlean. Some derive the word, Onpin AsiG. 200 70 Appicer, from the skins of Beasts that were figured upon them: and Pamphilus the Alexan-(m) Athe- drian (m) would have them called for neus, pag. 2000 TE Steges x roveiv, because Beasts were 471. scared and frightned, when, in Sacrifices, Wine was poured upon them out of those Cups. So I interpret the words of Pamphilus: איזט דצ ד בוטעטסט דצי אופעג אאטענוע, סדרייδοντα ταΐς χύλιξι ταυταις κατ' αυτών. For what is more ordinary in old Authors, than the memory of that cuftom of pouring wine on the heads of the Victims ?

Ipfa tenens dextra pateram pulcherrima Dido Candentis vacca media inter cornua fudit.

Nor are wild Beafts only called $\Re p = 5$, but tame too, fuch as Bulls and Cows; as the Epigrammatift calls the *Minotaure*, $av \operatorname{Spomov}$ $\mu \ge 5$, $\Re e = 2$. I cannot therefore comprehend why the most learned *If*. Cafaubon will read $\sigma \pi = 2 \operatorname{Sovra}$ in this passage, and not $\sigma \pi \le 2 \operatorname{Sovra}$. For I own, I see little or no sense in it, according to his Lection. And as for the Authority of the ancient Epitomizer of Athenaeus, who, he says, reads it $\sigma \pi = 2 \operatorname{Sovra}$; one may be certain, 'twas a fault only in that Copy of him that Casaubon used. For Eustathius, who appears never to have seen the true Athenaeus, but

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but only that Epitome, read it in his Book onevolvra, and took it in the fame fence that I now interpret it, [p. 1209. Iliad.] H SIGTI STERS RAOVER, OTTEVOSOI 20 אמד מטדמי אטאוצו דטומטדמוק. And now for those two derivations of the word Onpi-*AuG, ; was ever any thing fo forced, fo frigid, fo unworthy of refutation ? Does not common Analogy plainly fhew, that as from Hearing comes Hearing, from Σοφοκλής, Σορόκλει G., and many fuch like; to Onpix Lei Q must be from Ongerins? befides fo many express Authorities for it, which I have cited before. To which F may add that of Julius Pollux, [l. vi. c. 16.] Onpin resor is Kar Jacov Doto The moundarlan : and Plutarch in P. Æmilius, [pag. 273.] Οίτε τος Αντιγονίδας, η Σελευκίδας, η Oreinheiss Gridennuguevoi. And Clemens Alexand. [II. Pæd. p. 69.] Eppercer Toiver Onpix Levol Twee xulikes, is Autivovides, is Kav Jaegi. For one may justly inferr, that both Plutarch and Clemens believed. Onpix ress to be from One whis; because they join them with those other Cups, all which had their names from Men that either invented or uled them. And fo fays a Manuscript note upon that passage of Clemens; Onpixhers 200 Onexhess TE ipeve gria. So that upon the whole, let Pamphilus and those other Grammarians B 3 help

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help him as they can, our Sophift flands fully convicted, upon this Indictment, of forgery and imposture. 27.85

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I must here beg leave of the late learned Editors of our Mock Phalaris, with whom I must by and by have fome further expostulation, to diffent from their new verfion of this paffage; whereby this argument from Thericles would vanish into nothing. For inftead of ten couple of Thericlean Gups, as the former Interpreters honefly translate it, they prefent us, as an emendation, with the like number of GLASSES, Poculorum Vitreorum, leaving us not the least footstep of our Corinthian Potter. But methinks these Glaffes come in but odly and ftingily among those other things named there of great value, ciahas arrepos yours, Gc. Veffels of Gold and Silver, beautiful Slaves, fifty thousand Drachmæ, and a liberal yearly Penfion for Life. If Agathocles the Tyrant had made this Present of a score of Glasses, it might have passed for a mark of favour : because he was a Potter in his youth, and we might suppose them of his own making, And as I remember, Diodorus tells fuch a flory of him. But why Pbalaris should make fo cheap and brittle a Complement, I cannot conjecture. 'Tis true, Suidas translates it a Glass, OnelxLEIDN

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ELEN TOTHELOV Sarwov : and Etymolog. Mag. Οπρίκλειον πίλικα, ποτήςιον δελινον. But we know the old Lexicons chiefly confift of Excerpta out of Scholiasts and Glosaries upon particular Authors; one of which, in one fingle place, might expound it a Glass. But that it must universally mean fo, or particularly in this paffage before us, neither the use of the Language, nor good Senfe will allow. For belides Earth, which was the first Material ; fome were made of Wood, as Theophrastus fays in the place already cited; others of Silver or Gold, as Plutarch in P. Æmilius; Oi) Ta's Oneundeiss is Era and SETTVON XPYZQMATA TO TRESTENS OTTOG noumeron. And Athenaus, [lib. v. p. 199.] Decourses of mer owoxbas, of) prahas, of) Oneuxneiss meganas, maria XPYEA. And I conceive, it were more agreeable to the Generofity of Phalaris, which is the fubject of fo many Letters, to suppose these Thericlean Cups to be Silver at least, if not a more precious Metal.

IV. In the LXXXV Epiftle, he boafts of a great Victory obtained over the Zancleans; Ταυς ημενείτας η, ΖαΓαλείας συμμαχήσανίας Λεοντίνοις εἰς τέλ © νενίμακα. But the very preceding Letter, and the XXI, are directed to the Meffenians, Measuviois, and the City is there called Meoshun;

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and in the First Epist. he speaks of Tlozonheil Q. & MEashui Q. Here we fee we have mention made of Zancleans and Meffenians : as if Zancle and Messana were two different Towns. Certainly the true Phalaris could not write thus; and it is a piece of ignorance inexcufable in our Sophift, not to know that both those names belong'd to one and the fame City, at different times. Strabo, [lib.vi. p.268.] Meashin, Zalann 200-TER gu xalsuirn ; Mellana, which was before called Zancle. See alfo Herodotus, [lib.vii.] and Diodorus, [lib. IV.] and others. Perhaps it may be fuspected, in behalf of these Epistles, that this change of Name was made, during those xv1 years of Phalaris's Tyranny; and then fuppoling the LXXXV Letter to be written before the change, and the other Three after it, this argument will be evaded. But Thucydides will not fuffer this fuspicion to (*) Lib.vi. país, who relates, (n) that at the time of Xerxes's expedition into Greece (which P. 414. was Olymp. LXXIII.) Anaxilaus King of Rhegium befieged Zancle, and took it, and called it Meffana, from the Peloponnefian City of that name, the place of his nati-(o) Lib.vi. vity. The fame fays (o) Herodotus : and (p) Lib.xi. agreeably to this narrative, (p) Diodorus fets down the death of this Anaxilaus P. 37. Olymp. LXXVI, I. when he had reigned XVIII

XVIII years. Take now the lateft accounts of *Phalaris's* death, according to to St. *Hierom*; and above LX years intervene between that, and the new naming of *Zancle*. So that unlefs we dare afcribe to that Tyrant a Spirit of Vaticination, we cannot acquit the Author of the Letters of fo manifeft a cheat.

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But I love to deal ingenuoufly, and will not conceal one testimony in his favour, which is that of (q) Paufanias, (q) Meffen. who tells the ftory very differently from P. 134. Herodotus and Thucydides, placing this fame Anaxilaus of Rhegium about a CLXXX years higher than they do; That he affifted the Refugees of Meffana in Peloponnefus, after the second war with the Spartans, to take Zancle in Sicily; which thereupon was called Meffana, Olymp.xxix : Taura) Eni & Orumad G. Eropay In i Evatus is Einsis, in Xions Adnew to deutep av ivina, Mirtidos map'A. Invaicis agyorlos. Now if this be true, we must needs put-in one word for our Sophift; that Phalaris might name the Meffenians, without pretending to the gift of Prophecy. (r) Cluverius (r) sicil. indeed would fpoil all again ; for he makes Antig. P. it a fault in our Copies of Pausanias, and for elucinis the xxix Olymp. reads Egunosis the LXIX; which is too great a number, to do our Author any fervice. But we will not

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a mistake of Cluverius; for without que-

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flion, the true Lection is elassify the xxix : because the time of the Messenian War agrees with that computation, and not (s) Enfeb. With the other : and the ancient (s) Catalogue of the Olympionicæ puts Chionis's Victory at that very year. Oruputic's ei-2051 evarn Xibris Aaxov 5000. Tela-2054. 6 autos to deuteger. So that if Panfanias's Credit is able to bear him out, our Stellers Author, as to this prefent point, may still come off with reputation. But alas ! what can Paufanias do for Him, or for himfelf, against Herodotus, and Thucydides, that liv'd fo near the time they fpeak of ; against those other unknown Authors that Diodorus transcribed ; against the whole tenor of Hiftory, confirm'd by fo many Synchronisms and Concurrences that even demonstrate Anaxilaus to have lived in the days of Xerxes, and his Father ; when Theron, and not Phalaris, was (t) Ms-(1) Herodot. Tib. vii. vazy G., Monarch of Agrigentum. Nay, P. 438. though we should be fo obliging, fo partial to our Sophist, as for his fake to credit Pausanias against so much greater Authority; yet still the botch is incurable; tis running in debt with one man, to pay off another. For, how then comes it to pais, that the Meffenians in another Letter, 3001 are

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are in this called Zancleans? which, by that reckoning of *Paufanias*, had been an obfolete forgotten word, an hundred years before the date of this pretended Epifile.

V. That fame xcn Letter, which has furnish'd us already with one detection of the Imposture, will, if strictly examin'd, make a fecond confession, from these words, is with inlew the truge Sinne : itis a threat of Phalaris to the Himeraans. That he would extirpate them like a Pinetree. Now here again am I concerned for our Sophift, that he is thus taken tripping. For the Original of this Saving is thus related by (u) Herodotus : When (u) Lib.vi. the Lampfaceni in Afia had taken captive cap. 37. Miltiades the Athenian, Crafus King of Lydia fent them a Meffage; That if they did not fet him free, he would come and extirpate them like a Pine ; opeas miru Q. regnov ansides exicher. The men of Lampfacus underftood not the meaning of that expression, like a Pine ; till one of PL 180 3V the eldeft of them hit upon it, and told them, That of all trees, the Pine, when once it is cut down, never grows again, but utterly perisbes. We see the phrase was then fo new and unheard of, that it puzled a whole City: But now if Creefus was upon that occasion the first Author of this fruction. Saying,

Saying, what becomes of this Epiftle? For this, as I observed before, being pretended to be written above a dozen years before Phalaris's death, carries date at least half a dozen before Crasus began his reign.

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Nay, there is good ground of fuspicion, that Herodotus himfelf, who wrote an Hundred Years after Phalaris was kill'd. was the first broacher of this expression. For 'tis known, those first Historians make every body's Speeches for them. So that the blunder of our Sophift is fo much the more shameful. The Third Chapter of the vni Book of A. Gellius, which is now loft, carried this Title ; Quod Herodotus parum vere dixerit, unam solamque pinum arborum omnium cæsam nunquam denuo ex iisdem radicibus pullulare; " That Herodotus is in the wrong, in fay-" ing, that of all trees, a Pine only, if lopt,

(w) Hift. C. 19. Cauf. Pl. C. 24.

" never grows again." I fuppole, Gellius, in that Chapter told us, (w) out of Theo-PL lib. iv. phrastus, of some other trees, beside the Pine, that perifh by lopping ; the Pitch-I.v. c. 24. tree, the Firr, the Palm, the Cedar, and Plin.l.xvii. the Cypress. But I would have it obferved, that he attributes the Saying, and the Mistake about it, not to Crasus, but to Herodotus : after whom, it became a Proverb, which denotes an utter de-Aruction,

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ftruction, without any possibility of flourishing again. See $\Pi_{so'rms} \tau e \circ \pi \sigma v$ in Zemobius, Diogenianus, and Suidas. And 'tis remarkable, that our Letter-monger has Herodotus's very words, $\pi i \tau v_s$ and $i \pi \tau \rho i lew$; when all those three other Writers have $\pi \epsilon v \pi m$ for $\pi i \tau v_s$, and $n \sigma \pi lew$ instead of $i \pi l \rho l \beta e w$: which she had in his eye and memory this very place of Herodotus. A strange piece of stupidity, or else contempt of his Readers, to pretend to assume the garb and person of Phalaris, and yet knowingly to put words in his mouth, not heard of till a whole Century after him.

But here again our late Editors, as if they had been bribed for the Sophist, have lopt off and deftroyed this branch of our Evidence, as far as lay in their power : for they have made bold to execute this Proverb upon it felf, and have quite extirpated the Pine-tree out of their new Vertion : os autos Exlerta mitua dixlu : that is, qui eos in arundinis morem conteret, " who will bruife them like a Reed," (fay our critical Interpreters.) It feems, the Translation in the former Editions, Qui eos exscindam instar pinus, was too easie and vulgar. In H. Scripture, indeed, there is mention, by a very elegant Metaphor, of bruised and broken Reeds. But why

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why Reeds must be transplanted hither. and the innocent Pine rooted up, I confeis to be above my finall understanding in Gardening. Gardening.

VI. In the LXXXV Epiftle, we have already taken notice of our Mock-Tyrant's triumph; on Taug queveiras is Zalnheiss eis TER S. verinne, That he had utterly routed the Tauromenites and the Zancleans. But there's an old and true Saying, Horna' nawa To Tohens, Many new and Strange things happen in War. For we have just now feen those fame routed Zancleans rife up again, after a Thousand Years, to give him a worfe defeat. And now the others' too are taking their turn to revenge their old loss. For These, though they are called Tauromenites, both here, and in the xv, xxx1, and xxx111 Epiftles, make proteftation against the name; and declare they were called Naxians, in the days of the true Phalaris. Taurominium. quæ antea Naxos, fays Pliny, [lib.111. c. V111.] Taurominium, quam prisci Naxon vocabant, fays Solinus, [cap. x1.] Whence it is, that Herodotus and Thucydides, because they writ before the change of the name, never speak of Taurominium, but of Naxos, and the Naxians. A full account of the (x)Lib.xiv time, and the reason, and the manner of P. 282, & the change, is thus given by (x) Diodorus. Some

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(III)

Some Sicilians planted themfelves Olymp. xcvi, 1. upon a Hill called Taurus, near the ruines of Naxus, and built a new town there, which they called Tauromenion, doto To Taupa is mever, from their settlement upon Taurus. About Forty Years after this, Olymp. cv. 3. (y) one () Lib.xv. Andromachus a Tauromenite gathered all P. 411. the remnant of the old Naxians that were difperfed through Sicily, and perfuaded them to fix there. This is fuch a plain and punctual testimony, that neither the power and stratagems of the Tyrant, nor the rhetoric of the Sophift, are able to evade it. Where are those then, that cry up Phalaris for the florid Author of the Letters ? who was burnt in his own Bull, above CL Years before Taurominium was ever thought on.

But I shall not omit one thing in defense of the Epistles; which though it will not do the work, let it go, however, as far as it can. We have allowed, that *Pythagoras* was contemporary with *Phalaris*; and yet in the History of that Philosopher, we are told of his conversation and exploits at *Taurominium*. Porphyry fays, (2) He deliver'd Croton and Himera, (2) Vita pythag. by Taue gulenon, and Taurominium, from p. 169. Tyrants: and, (a) That in one and the fame (a) P.192, day he was at Metapontium in Italy, and & 193. Tauro-

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Taurominium in Sicily. 'The fame ftory (b) Fambl. is told by (b) Famblichus; who fupplies **p.** 128. (c) **P.** 109. us too with another, (c) That a young man

of Taurominium being got drunk, taxegpereirs perecus, Pythagoras played him fober by a few tunes of grave Spondees. Thefe feveral paffages feem to concurr with, and confirm the credit of the Letters, that Taurominium had a Name and Being in the time of Pythagoras and Phalaris. All this would be very plaufible, and our Sophift might come off with a whole skin, but for a crofs figure in his own Art, Rhetoric, called Prolepfis or Anticipation, viz. when Poets or Hiftorians call any place by a name, which was not yet known in the times they write of. As when Virgil fays of Æneas,

---- Lavinaque venit Littora :

and of Dædalus,

Chalcidicáq; levis tandem superadstitit arce :

he is excufed by Prolephs; though those places were not yet called fo in the times of Dædalus and Æneas. So when Porphyry and Jamblichus name Taurominium in the story of Pythagoras; meaning Naxos, which was afterwards called fo; the fame figure acquits Them. For 'tis no more, than when I fay, Julius Cæfar conquered France,

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France, and made an expedition into England: though I know that Gaul and Britain were the names in that age. But when Phalaris mentions Taurominium fo many generations before it was heard of, he cannot have the benefit of that fame Prolepfis. For this is not a Poetical, but a Prophetical Anticipation. And he must either have had the Præscience and Divination of the Sibyls, or his Epistles are as false and commentitious as our Sibylline Oracles:

VII. The xxxv Letter to Polygnotus prefents us with a Sentence of Moral; έπ λόγ @ έργε σκιά παρά τοῦς σωρε gueste gis £) Wills memiseuray, That wife men take Words for the Bernor Shadow of Things ; that is, as the Shadow is not alone without the prefence of the Body, fo Words are accompanied with the Action. 'Tis a very notable Saying, and we are obliged to the Author of it; and if Phalaris had not modefly hinted, that others had faid it before him, we might have taken it for his own. But then there was either a ftrange jumping of good Wits, or Democritus was a forry Plagiary; for He laid claim to the first Invention of it, as (d) Diogenes Laertius fays, Tors en is to Aby G. Leys oxin : and (d) Vita (e) Plutarch, Aby Q. 20 egys GRin nata An- Democrit. Mone Nov. What shall we fay to this cat. Pher. matter ?

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matter ? Democritus had the character of a man of Probity and Wit; who had neither inclination, nor need, to filch the Sayings of others. Befides, here are Plutarch and Diogenes, two witnesses that would fcorn to flatter, and to afcribe it to Democritus, had they ever read it in others before him. This bears hard indeed upon the Author of the Letters : but how can we help it? He fhould have minded his hits better, when he was minded to act the Tyrant. For Democritus, the first Author of the Sentence, was too young to know even Pythagoras, Ta The xeguer maxeray, fays (f) Diogenes; and yet Pythagoras furvived Phalaris, nay, deposed him, if we will believe his Scholars. We may allow Forty Years space for Democritus's writing; from the LXXXIV Olymp. to the xciv, in which he died. Now the earliest of this is above an Hundred Years after the last period of Phalaris.

(g) De Dam. (b) Epift 252, & 259.

(f) Vita

Democ.

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I am fenfible that (g) Michael Pfellus refers this Saying to Simonides ; and (b) Ifdorus Peleus. to the Lacedæmonians. But thefe two are of little authority, in a cafe of this nature, against Plutarch and Diogenes. Neither would the matter be mended, should we accept of their teflimony. For Simonides was but Seven Years old, or, as others fay, yet unborn, when

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when *Phalaris* was kill'd. And were it a *Lacedæmonian* Apophthegm, though the date be undetermined, it might fairly be prefumed to be more recent than He.

VIII. In the LI Epiftle to Eteonicus there is another Moral Sentence; Ountes and out as a Drivator deglied Exervices of an Tives, is megorimen; Mortal Men ought not to entertain Immortal Anger. But I am afraid he will have no better fuccess with this, than the former. For (i) Aristotle, in his (i) Lib. II. Rhetoric, among some other sententious cap. 21. Verses, cites this lambic, as commonly known;

A Java Tov ogy w un purate Juntos av.

This, though the Author of it be not named, was, probably, like most of those Proverbial Gnomæ, borrow'd from the Stage; and consequently, must be later than *Phalaris*, let it belong to what Poet you please, Tragic or Comic.

But because it may be suspected, that the Poet himself might take the Thought from common usage, and only give it the turn and measure of a Verse; let us see if we can discover some plainer foot-steps of Imitation, and detect the lurking Sophist under the mask of the * C 2 Tyrant.

(k) Tit.xx. Tyrant. (k) Stobaus gives us thefe Verfes neel 'Op- out of Euripides's Philocletes ; mis.

> " Dome) Bunton is to own huw equi Outo torgonizes unde this ogyles Eyen A Arivalor, ous owe grew Grisalay.

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Now to him that compares these with the words of the Epiftle, 'twill be evident, that the Author had this very passage before his Pen ; there is exew and we gonnes ; not only a fameness of sense, but even of words, and those not necessary to the Sentence : which could not fall out by accident. And where has he now a Friend at a pinch, to support his finking credit ? for Euripides was not born in Phalaris's time. Nay, to come nearer to our mark; (1) Argu- from (1) Aristophanes the famous Gramment. Me- marian, (who, after Aristotle, Callimachas, and others, writ the Androxadiay, A Catalogue and Chronology of all the Plays of the Poets; a Work, were it now extant, most useful to ancient History,) we know that this very Fable, Philoctetes, was written Olymp. LXXXVII; which is CXX Years after the Tyrant's Destruction.

> IX. The XII Epiftle exhibits Phalaris making this complement to his Friends; · Ων εύτυχένων, καν αυτός ετέρω συμπλακώ Salucus, hoteis soler notor Europeir Sola; That while they continued in prosperity, his joy for

dea Eurip.

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for that, though himself should fall under missfortunes, would still make him happy. But methinks those words, $E \tau \ell \rho \omega \Delta \alpha \mu \omega \nu$, the Other God, or Genius, that is, the Bad one, have a quaintness in them something Poetical, and I am missiaken if they be not borrowed from some Retainer to the Muss. And now I call it to mind, they are (m) Pindar's, (m)Fyth.33

> Δαίμων δι έτερ & *Es καχόν τρέξαις έδαμάσατό νιν.

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or Callimachus's; for this Scazon of his is there cited by the Scholiast,

O' Tavles, and " "אל ביקר עדבף & Day wav.

Whether of these our Author made bold with, I cannot determine. *Pindar* I should encline to guess, but that I find him familiar with *Callimachus* upon another occasion; Epist. CXXII. speaking of *Perillus*'s invention of the Brazen Bull; $\Upsilon \pi i e i \mu i$

Πρώτ @ επείτ ταῦς ον εκαίνιστν, ὅς τ ὅλεθεον Εῦρε, τ ἐν χαλκῷ κỳ πυρί γινόμενον.

But be it either of them as you will, I fuppose the Ages of both those Poets are C 3 well

well enough known; fo that without any computation of Years, one may pronounce these fine Epistles not to belong to *Phalaris* himself, but to his Secretary the Sophist. aba

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X. The XXIII Epiftle is directed to Pythagoras; and there he gives to his Doctrine and Inftitution the name of Philofophy; H $\Phi a \lambda a' g a' G \pi u g g v u's f \Pi u J a Jops \Phi IAO \Sigma O \Phi IA \Sigma \pi \lambda isov Sov Schi ke <math>\chi a p a J a'$. And fo again in the LVI. he gives him the title of Philofopher, $\Pi u J a \chi a p a J a \Phi IAO \Sigma O \Phi \Omega$. I could flow now, from a whole crowd of Authors, that Pythagor as was the first man that invented that word; but I fhall content my felf with two, Diogenes Laertius, and Cicero.

The former fays, (0) Dirospian aparos

(0) P. 3.

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⁶ 20. ανόμασε Πυθαγοέσις, ή έαυτον Φιλόσορον, εν Σικυώνι διαλεγόμεν Ακόνιι, τα Σικυωνίων τυράννω, ή Φλιασίων ; Pythagoras first named Philosophy, and called himself Philosopher, in conversation with Leon the Tyrant of Sicyon, or, as some say, of Philus.
(P) Tuscul. The latter tells us, (p) That when Pythagoras had discoursed before Leon, the Tyrant much taken with his wit and eloquence, asked him what Art or Trade he prosest. Art, says Pythagoras, I prosess none, but I am a PHILOSOPHER. Leon, in admiration at the newness of the name, enquires what

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what those Philosophers were, and wherein they differed from other men ; " Quinam " effent Philosophi, & quid inter cos & " reliquos intereffet." What a difference is here between the two Tyrants? The one knows not what Philosopher means; the other feems to account it as threadbare a word, as the name of Wife Men of Greece; and that too, before ever he had spoken with Pythagoras. We cannot tell, at this diftance of time, which Converfation was first, that with Phalaris, or that with Leon. But allowing Leon's to be the first, yet it could not be long before the other. And 'tis very hard to believe, that the fame of fo fmall a business could fo foon reach Phalaris's ear in his Caftle, through his Guard of Blue-coats, and the loud bellowings of his Bull. Nay, could we fuppose him to have heard of it; yet furely when he had written to Pythagoras, he would have usher'd the Word in with some kind of introduction, That Science which you call Philosophy; and not speak of it as familiarly, as if it had been the language of his Nurfe.

XI. In the LXIII Epiftle, he is in great wrath with one Aristolochus, a Tragic Poet that no body ever heard of, for writing Tragedies against him, xar in grazew Tearyadias: and in the XCVII. he threatens C 4 Lyfinus, 39

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Lyfinus, another Poet of the fame flamp with the former, for writing against him both Tragedies and Hexameters, $d\lambda\lambda^2 em$ $is, <math>\tau e a \gamma \omega \delta a s$, e is $e \mu e \gamma p d p e s$. Now to forgive him that filly expression, of writing Tragedies against Him, for he could not be the Argument of Tragedy, while he was living; I must take the boldness to tell him, who am out of his reach, that he lays a false crime to their charge. For there was no fuch Thing nor Word as Tragedy, while he tyranniz'd at Agrigentum. That we may flight that obscure ftory about Epigenes the Sicyonian, Thespis, we know, was the first Inventor of it;

Ignotum Tragica genus invenisse camænæ Dicitur, & plaustris vexisse poemata Thespis.

Neither was the Name of Tragedy more ancient than the Thing ; as fometimes it happens, when an old Word is borrowed and applied to a new Notion ; but both were born together : the Name being taken from $T_{\rho d \gamma} G$, the Goat that was the Prize to the beft Poet and Actor. But Alcestis, the first Tragedy of Thess, was acted (9) Marm. about (q) the LXI Olymp. which is day Okodeath.

XII. Had all other ways fail'd us of detecting this Impostor, yet his very Speech

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Speech had betray'd him. For his Language is Attic, the beloved Dialect of the Sophifts, in which all their Meretay, or Exercises, were composed; in which they affected to excell each other, even to Pedantry and Solecism. But he had forgot that the Scene of these Epistles was not Athens, but Sicily, where the Doric tongue was generally spoken and written; as besides the testimonies of others, the very Thing fpeaks it felf in the Remains of Sicilian Authors, Sophron, Epicharmus, Stefichorus, Theocritus, Moschus, and others. How comes it to pass then, that our Tyrant transacts every thing in Attic, not only foreign Affairs of State, but domeftic Matters with Sicilian Friends, but the very Accounts of his Houshold ? Pray, how came that Idiom to be the Court Language at Agrigentum ? 'Tis very ftrange, that a Tyrant, and fuch a Tyrant as He. should so doat on the Dialect of a Democraty, which was fo eminently ploo-Tuearra, the Hater of Tyrants; which. in his very days, had driven out Pifistratus, though a generous and easie Governour. Especially, fince in those early times, before Stage-Poetry and Philofophy and Hiftory had made it famous over Greece, that Dialect was no more valued than any of the reft.

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I would not be here mistaken; as if I affirmed, that the Doric was abfolutely univerfal, or original in Sicily. I know, that the old Sicani, the Natives of the Ifle, had a peculiar Language of their own ; and that the Greek Tongue there, like the Punic, was only a foreigner, being introduced by those Colonies that planted themselves there. Most of which coming from Corinth, Crete, Rhodes, &c. where all fpoke the Doric Dialect; thence it was that the fame Idiom fo commonly obtained almost all over Sicily; as it appears to have done, to omit other teftimonies, from the ancient Medals of that Island, TATPOMENITAN, MESSANION, GEP-MITAN, MANOPMITAN, AIATBAIITAN, SEAI-NONTION; all which words, inferibed upon their Money, demonstrate the Doric Dialect to have been then the language of those Cities. 'Tis true, there came some Colonies to Sicily, from Eubæa, and Samos, and other places ; which, in those Parts where they fettled, might speak, for a while, the Ionic or the Attic ; and afterwards, being mixed with the Dorians, might make a new fort of Dialect, a com-(r) Lib.vi. pound of both : as (r) Thucydides obferves of Himera, that the language of P. 414. that City was at first a medly of Doric and Chalcidic. But that is no more than what happen'd

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happen'd even in Greece it felf, where there were many (s) woodapeoes romanai, (s) Verus local sub-Divisions of every Dialect, one Autor Tree At-Country having always fome fingularity anisher. of Speech, not used by any other. But those little peculiarities do not hinder us from faying in general, that the Sicilians fpoke Doric. For the other Dialects were fwallowed up and extinguished by those two powerful Cities of Dorian Original, Syracufe, and Agrigentum, that fhared the whole Island between them. Syracule was a Corinthian Colony, and spoke (t) the (1) Thesi crit. Id.xv. Dialect of her Mother City. Agrigentum was first built by the Geloans of Sicily, who had been themselves a Plantation of the Cretans and Rhodians, both of which were Dorian Nations. So that upon the whole, though in fome other Towns, and for a time, there might be a few footsteps of the Ionic and Attic ; yet our Sophift is inexcufable, in making a Tyrant of Agrigentum, a City of Doric Language and Original, write Epiftles in fuch a Dialect, as if he had gone to School at Athens.

But there is a (u) learned Greek Pro- (u) Vid. feffor (whofe Pardon I muft ask, that I Eurip. Eforgot to name him above, among the p. 523. Patrons of *Phalaris*,) who, after he has afferted the credit of *Euripides*'s Letters,

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gratuitoully undertakes to apologize for These too, about this matter of the Dia-(w) Is e- lect. First, fays he, (w) because Phalaris was born at Astypala, an Island of the Cyclades, where was an Athenian Colony, ex Cycla- that is one reason for his speaking Attic. It were easie to overthrow this first argufium erat ment at once; by refuting our spurious Epiftles, and by fhewing, from much better Authority, that Phalaris was a Sicilian born. But I may speak, perhaps of that by and by; and I will have every Proof I bring stand by it felf, without the fupport of another. Let us allow then, that Phalaris came from Astypalæa, (for fo it is to be called;) not that Isle of the Cyclades,

(x) v. Asv-according to (x) Stephanus; but of the Sporades, mention'd by (y) Strabo and trad. (y) Lib, x. (z) Pliny: for this latter was nearest to p. 488. (z) Lib.iv. Crete, whither Phalaris's Wife and Son cap. 12.

are supposed to have fled, Epist. LXIX. 'Tis true, our late industrious Editors have discovered a new place of his birth, (a) Vid. (a) Astypalæa, a City of Crete, never men-Vicam tion'd before by any Geographer, fituate Phalar. in the 370th. deg. of Longit. bearing & Indicem. Edit. South and by North off of Utopia. And I am wholly of their opinion, that he was Same S. born in that, or in none of them. But because Tradition is rather for the Island, we will beg their good leave to fuppofe it

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to be fo : and There, as it feems, was formerly a Plantation of Athenians; and Phalaris being one of their Posterity, must needs, for that reason, have a twang of their Dialect. Now, what a pity 'tis, that Phalaris himfelf, or his Secretary, did not know of this Plantation, when he writ the cxx Letter to the Athenians, " De ooperalos myereis "A. Invaios ! What a fine complement would he have made upon that subject of their Kindred ! If any one know an express testimony, that there was an Athenian Colony at that Astypalæa, he can teach me more than I now remember. This I know in general, from (b) Thucydides and others, that the (b) Lib. 1. Athenians fent Colonies to most of the Lavas uiv Islands; and fo That may come in among 'ASHVaior the reft. But what then ? must the Lan- 10 Nnorwguage for ever afterwards be Attic, where- TOANES ever the Athenians once had footing ? GRIJORV. Thucydides fays in the fame paffage, That they planted Ionia. They had Colonies at Miletus, at Ephefus, and most of the Maritime Towns of Afia Minor. Nay, the Ionians and the Attics were anciently one People, and the Language the fame : and when Homer fays, (c) Everde Bowloi is (c) strabe, Idores, by the latter he is known to mean lib. vili. the Athenians. And yet we fee, that in lib. ix. process of time, the Colonies had a diffe- P. 392.

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p. 333. &

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rent Dialect from that of the Mother Nation. Why then must Astypalæa needs be Attic? and that fo tenacioufly, that twenty Years living in Sicily could not at all alter it in one of her Islanders? He. (d) Polya- was part of that time a (d) Publican, or nus Stra- Collector of Taxes and Customs : Could not that perpetual negoce and converfe with Dorians bring his mouth, by degrees, to speak a little broader ? Would not He that (e) aim'd at Monarchy, and (e) Ibid. for that defign studied to be popular, have quitted his old Dialect for that of the place; and not by every word he spoke make the invidious discovery of his being a Stranger ? But what if, after all, even the Astypalæans themselves should be found to fpeak Doric ? If we make a conjecture from their neighbourhood, and the company they are put in, we can fcarce que-(f) Lib. x. ftion but they were Dorians. (f) Strabo p. 488. fays, the Island lies between Cos, and Rhodes, and Crete, METazi & Kã manisa i Poos, x, Kphrns. And that all these three used the Doric Dialect, is too well known, to need any proof.

But let us hear the Second Apology for (g) Sednee the Atticism of Phalaris. (g) He defends ipfe Diodo- him by the like practice of others; that rus Siculus nec Empedocles Agrigentinus, nec Ocellus Lucanus Dorice fed Attice fere fcripferunt.

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being Dorians born, repudiated their vernacular Idiom for that of the Athenians; as Diodorus of Agyrium, Empedocles of Agrigentum, and Ocellus of Lucania. So that, though Phalaris be supposed to be a Native of Sicily, yet here is an excufe for him, for quitting the Language. But I conceive, with fubmiffion, that this Argument is built partly upon a vulgar Mistake, and partly upon fuch Inftances as are quite different and aliene from the cafe of our Epiftles.

Ocellus Lucanus, the Pythagorean Philofopher, writ a fmall Treatife Of the Nature of the Universe; which has been feveral times printed, and is in row Staring, in the common and ordinary Greek. But, if I may expect thanks for the difcovery, I dare engage to make out; that the Author compos'd it, not in the drefs that it now wears, but in Doric, his own Country fashion. For I find, it was agreed and covenanted among all the Scholars of that Italian Sect, (b) quiñ zeñoday Ti malpua, (b) Jam. to use their own Mother-Tongue : this was Pythager. the injunction of Pythagoras; this was the 202. teffera of the whole Party; and those that know any thing of their ftory, will believe they would have loft their Lives, rather than have broken it: 'Tis most certain, if one had publish'd a Book against that

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that Injunction, he would have been banish'd the Society. Besides, when Jamblichus tells us of this Compact of theirs, he makes not one Exception to it ; which he could not have miss'd, neither from ignorance nor forgetfulness, if so common a Tract as this of Ocellus had been writ in the Attic. Nay, we are affured, that other Pieces of this Author were made in the Doric ; as one Of Law, Hepl Nome, cited (i) Eclog. by (i) Stobæus: the fragment begins thus; Phys. c. 16. Συνέχει τα μέν σκάνεα ζώα, ταυτας δι αιτιον עטעמי ד אופד עטע בפעטעום, דמידמה שמדום S. Szós. But, which is plain demonstration, four citations are brought by the (k) Ibid. (k) fame Writer out of this very Book, Tepi of TS TRIVIG. QUOTEWS, About the Nature of the Universe; all which are in Doric, and not, as they are now extant, in the ordinary Dialect. The first of them begins thus, "ETI) to avagyou is atteneutalon ing Tã ghual Que tãs nivasi Que no Tã zeoro is Tas wolas TETO TISE): which is thus extant in the vulgar (1) Ocellus, p.16. "Eri") Hy TO avagyov is a TEREUTITOV is TE ginual Qu ing of nivhorews in of Bolas TETO TISETay. The fecond, thus beginning, "Ener of in Tw mavri, extant p. 17. The third, Mparws Jag Ena to mandezes, Ec. thus extant, p. 21. Aportos Un To marderes. The fourth, Пантелия.) слора тая ali tan zav

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yar Staxoo manos; extant in ordinary Greek, p. 31. Marterins) propa & and the yes Stanoo unotews. From which passages these two points are manifeftly evinced; That Ocellus composed his Writings in Doric, and fo is falfely brought in for an Excufe to our Phalaris and, which is much more confiderable, That this Tract of his now extant, is to be acknowledged for a genuine Work ; which hitherto Learned Men have doubted of, from this very bufinefs of the Dialect. For we now fee by these Fragments, that every word of the true Book is faithfully preferved ; the Doric only being changed into the ordinary Language, at the fancy of fome Copyer fince the days of Stobaus.

As for *Empedocles* and *Diodorus*, a Poet and an Hiftorian, their cafe is widely remote from that of our Tyrant. The former, being to write an Epic Poem, flow'd an excellent judgment in laying afide his Country Dialect for that of the *Ionians*; which *Homer* and his followers had ufed before him, and had given it, as it were, the dominion of all Heroic Poetry. For the *Doric* Idiom had not Grace and Majefty enough for the Subject he was engaged in ; being proper indeed for Mimes, Comedies, and Paftorals, where Men of ordinary rank are reprefented; or for Epigrams,

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Epigrams, a Poem of a low vein ; or for Lyrics, and the Chorus of Tragedy, upon the account of the Deric Mulic ; but not to be used in Heroic, without great difadvantage. And the Hiftorian likewife. with the reft of that and other Dorian Nations, Philistus, Timæus, Ephorus, Herodotus, Dionyfins Halic. &c. had great reafon to decline the use of their vernacular Tongue, as improper for History; which, belides the affectation of Eloquence, aims at Eafiness and Perspicuity, and is defigned for general use. But the Doric is course and ruffic, and always clouded with an obscurity; Extens The arapis & Doend Q. Sup Nex 1s, fays (m) Porphyry; who attributes the decay of the Pythagorean Sect to their writing in that Dialect. And we have just now feen an inflance of it; fince fome body thought it worth his labour, to transcribe Ocellus into another Idiom. And now, what affinity is there between Phalaris's cafe, and that of Historians, or Heroic Poets? What mighty motives can be here for affuming a foreign Dialect ? The Letters are dated in the middle of Sicily, mostly directed to the next Towns, or to fome of his own Domestics, about private affairs, or even the expences of his family, and never defigned for the public view. If any will fill Epigrams,

(m) Vita Pythag. P 205.

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ftill excuse the Tyrant for Atticizing in those circumstances, 'tis hard to deny them the glory of being the faithfullest of his Vassals.

XIII. But fince Tyrants will not be confined by Laws; let us suppose, if you will, that our Phalaris might make use of the Attic, for no reason at all, but his own arbitrary humour and pleafure : yet we have still another Indictment against the credit of the Epistles. For even the Attic of the true Phalaris's age is not there represented; but a more recent Idiom and Stile, that by the whole thread and colour of it betrays it felf to be a thousand years younger than He. Every living Language, like the perfpiring Bodies of living Creatures, is in perpetual motion and alteration; fome words go off, and become obfolete; others are taken in, and by degrees grow into common use; or the fame word is inverted to a new fenfe and notion; which in tract of time makes as observable a change in the air and features of a Language, as Age makes in the lines and mien of a Face. All are femilible of this in their own native Tongues, where continual Ufe makes every man a Critic. For what Englishman does not think himfelf able, from the very turn and fashion of the Stile, to difinguish D 2

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ftinguish a fresh English composition from another a hundred years old ? Now there are as real and fenfible differences in the feveral ages of Greek ; were there as many that could difcern them. But very few are fo verfed and practifed in that Language, as ever to arrive at that fubtility of Taft. And yet as few will be content to relish or diflike a thing, not by their own Senfe, but by another man's Palate. So that should I affirm, That I know the novity of these Epistles from the whole body and form of the work; none, perhaps, would be convinced by it, but those that without my indication could difcover it by themfelves. I shall let that alone then, and point only at a few particular marks and moles in the Letters. which every one that pleafes may know them by. In the very first Epistle; av incl Deolptus, which you accuse me of, is an innovation in language; for which the Ancients used acopters. In the XVII. aco-Ardungra, having given before, never uled by the Ancients in that fense, but always for having betrayed. In the LI. BEROWEVLW the Swixer, defirous to follow me, where he fpeaks of his Wife that would accompany him in his exile : but drawer anciently fignified, to purfue; when that which fled, fear'd and shun'd the Pursuer. In the States of the CXLII,

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CXLII, among other Prefents to a Bride, he fends Injartiers Thilagers Symphicas; which would anciently have fignified Daughters : but he here means it of Virgins or Maidens; as Fille and Figlia fignifie in French and Italian ; which is a most manifest token of a later Greek. Even (n) Tzetzes, when he tells the ftory out of (n) Chiliad. this Epistle, interprets it Maids, Steg. P. 196. παίνας. In the LXXVII, πολλοί παίδων Evles leasai, many that are fond of their children; for that is his fense of the words; which, of old, would have been taken for a flagitious love of Boys; as if he had faid, TORAD Thes Tay Degsai. They that will make the fearch, may find more of this fort; but I suppose these are sufficient to unmask the recent Sophift under the perfon of the old Tyrant.

XIV. But should we connive at his using the Attic Dialect, and fay not a word of those flaws and innovations in his Stile; yet there is one thing ftill, that, I fear, will more difficultly be forgiven him; that is, a very flippery way in telling of Money. This is a tender point, and will make every body fly and cautious of entertaining him. In the LXXXV Epistle he talks of a Hundred Talents. rahavla Exartiv; of Fifteen more, in the CXVIII; Eight, in the CXXXVII; Seven, in D 3 planky

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the civ; Five, in the cxuii; and Three, in the xcv. These affairs being transacted in the middle of Sicily, and all the perfons concerned being natives and inhabitants there; who would not be ready to conclude, that he meant the Talent of the Country? fince he gives not the leaft hint of his meaning a foreign Summ. If a bargain were made in England, to pay fo many Pounds or Marks; and the party should pretend at last, that he meant Scots Marks, or French Livres : few, I fuppofe, would care to have Dealings with him. Now this is the very cafe in fo many of these Letters. In the Lxx, indeed, he is more punctual with Polyclitus his Phyfician; for he fpeaks exprelly of Attic Money, Mueradas Aringis nevle. But this is fo far from excufing him, that it is a plain condemnation out of his own mouth. For if it was necessary to tell Polyclitus, that he meant the Attic Money, and not the Sicilian; why had he not the fame caution and ingenuity towards all the reft ? We are to know, That in Sicily, as in most other Countries, the Name and Value of their Coins, and the way of reckoning by Summs, was peculiar. The Summ Talent, in the Sicilian Accompt, contained no more in Specie than Three Attic Drachms, or Roman Denares; as plainly

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plainly appears from (o) Aristorle, in his (o) Pollux, lib.ix, c.6. now loft Treatife of the Sicilian Government. And the words of Festus are most express; Talentorum non unum genus : Atticum est sex millium denarium, Syracusanum trium denarium. What an immense difference ! One Attic Talent had the real think (g value of Two Thouland Sicilian Talents. RITES. SC Now, in all these Epistles the very Circumflances affure us, that by the word Talent fimply named, the Attic Talent is underftood. But should not our wife Sophift have known, that a Talent, in that Country where he had laid the Scene of his Letters, was quite another thing ? Without queftion, if the true Phalaris had penn'd them, he would have reckoned these Summs by the Sicilian Talents, encreasing only the Number : Or should he have made use of the Attic Accompt, he would always have given express notice of it; never faying raharlor alone, without the addition of and Himera fnould build a IcivinifrAs

XV. But to let pais all further arguments from Words and Language; to me the very Matter and Bufiness of the Letters fufficiently difcovers them to be an Imposture. What force of Wit and Spirit in the Stile, what lively painting of Hu- toffink (mour, fome fanfie they difcern there; 1 will not examine nor dispute. But me-D 4 Vd

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thinks little Senfe and Judgment is flown (o) Follins 10.12. C.G. in the Ground-work and Subject of them. What an improbable and abfurd ftory is that of the LIV 2 Stefichorus was born at Himera; but he chanced to die at Catana, a hundred miles distance from home. quite across the Island. (p) There he was buried, and a noble Monument made for him. Thus far the Sophift had read in good Authors. Now upon this he introduces the Himerenfes, fo enraged at the others for having Stefichorus's Alhes, that nothing lefs will ferve them, than denouncing of War, and facking their City. And prefently an Embally is fent to Phalaris, to defire his affiftance : who, like a generous Allye, promifes them what Arms and Men and Money they would : but withal, fprinkles a little dust among the Bees, advising them to milder counfels, and proposing this expedient, That Catana Mould have Stefichorus's Tomb, and Himera should build a Temple to him. Now, was ever any Declamator's Theme, fo extravagantly put ? What ? to go to War upon to flight an occasion ? and to call in too the affiftance of the Tyrant Had they to foon forgot Ste-(9) Aristot. sichorus's own counsel? (9) who, when upon another occasion they would have asked fuccour of Phalaris, diffuaded them thinks a by

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by the Fable of the Horfe and his Rider. Our Sophift had heard, that Seven Cities contended about Homer; and fo Two might go to Blows about another Poet. But there's a difference between that Contention, and this Fighting in Earneft. He is as extravagant too in the Honours he would raife to his Poet's Memory; nothing lefs than a Temple and Deification. *Cicero* tells us, that in his days, there was his Statue ftill extant at Himera (then called *Thermæ*,) which, one would think, was Honour enough. But a Sophift can build Temples in the Air, as cheaply and eafily as fome others do Caftles.

What an inconfiftency is there between the LI and LXIX Epiftles? In the former he declares his immortal hatred to one Python, who, after Phalaris's flight from Astypalæa, would have perfuaded his Wife Erythia to a fecond marriage with himfelf; but feeing her refolved to follow her Husband, he poifon'd her. Now this could be no long time after his banishment; for then fhe could not have wanted Opportunities of following him. But in the LXIX Epift. we have her alive again, long after that Phalaris had been Tyrant of Agrigentum; for he mentions his growing old there. And we must not imagine, but that feveral years had paffed, before he

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(r) Died. Sicul. p. 205. (3) Diog. Laert. in Empedoc.

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(t) Vita Phalar. & Index.

he could feize the Government of fo populous a City, that had (r) 200,000 Souls in it, or, as others (s) fay, 800,000. For he came an indigent Stranger thither, according to the Letters ; and by degrees rifing from one employment to another, at last had opportunity and power to effect that defign. Befides, in the LXIX Letter, the is at Crete with her Son; and in the LI, fhe is poifon'd (I fuppole) at Aftypalæa : for there her Poifoner dwelt; and 'tis exprefly faid, fhe defign'd, but could not follow her Husband. Which feems an intimation, that the Sophist believed Astypalæa to be a City in Crete. 'Tis certain, our diligent Editors by comparing these two passages together, made that difcovery (t) in Geography: for it could not be learnt any where elfe; and 'tis an admirable token, both that the Epiftles are old and genuine, and that the Commentators are not inferior to, nor unworthy of their Author. DUL VEC

What a scene of putid and senseless formality are the LXXIIX, LXXIX, and CXLIV Epistles? Nicocles a Syracustan, a Man of the highest rank and quality, sends his own Brother an hundred miles with a request to Phalaris, That He would send to Stesschorus another hundred miles, and beg the favour of a Copy of Verses upon Clearista his Wise, who was lately dead.

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dead. Phalaris accordingly fends to Himera with mighty application and address, and foon after writes a fecond Letter of Thanks for fo fingular a Kindnefs. Upon the fame of this, one (u) Pelopidas entreats him, That (u) Ep. lxv. he would procure the like favour for a friend of His; but meets with a repulse. Now, whether there was any Poem upon Clearista among the Works of Stefichorus. whence our Sophift might take the Plot and Ground-work of this ftory; or whether all is entirely his own invention and manufacture ; I will not pretend to guess. But let those believe that can, that fuch ftuff as this busied the head of the Tyrant : at least they must confess then, though the Letters would reprefent him as a great admirer and judge too of Poetry, that he was a mere Afinus ad Lyram. For, in the LXXIX Epift. he calls this Poem upon Clearifta wer Q and wer which must here (as it almost ever does) fignifie a Lyric Ode, fince it is spoken of Stefichorus a Melic or Lyric Poet. But in the CXLIV he calls it an Elegy, Exercitor ; which is as different from wer Q. as Theognis is from Pindar, or Tibullus from Horace. What ? the fame Copy of Verfes both an Ode and an Elegy? Could not fome years acquaintance with Stefichorus teach him the very Names ? But to forgive Him, or rather the

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the Sophift, fuch an egregious piece of Dulneis; why, forfooth, io much adoe, why fuch a vaft way about, to obtain a few Verfes? Could not they have writ directly to *Stefichorus*, and at the price of fome Prefent have met with easie fuccefs? Do not we know, that all of that String, *Bacchylides*, *Simonides*, *Pindar*, got their livelyhood by the *Mufes*? So that to use *Phalaris's* interceffion; besides the delay, and an unneceffary trouble to both, wasto defraud the Poet of his Fee.

Nay certainly, they might have employed any hand, rather than Phalaris's. For, begging pardon of the Epiftles, I sufpect all to be a Cheat, about Stefichorus's friendship with him. For the Poet, out of common gratitude, must needs have celebrated it in fome of his Works. But that he did not, the Letters themselves are, in this point, a fufficient witnefs. For, in the LXXIX, Phalaris is feigned to entreat him, not once to mention his Name in his Books. This was a fly fetch. of our Sophift, to prevent fo shrewd an objection from Stefichorus's filence as to any friendship at all with him. But that cunning shall not ferve his turn. For what if Phalaris had really wished him to decline mentioning his Name ? Stefichorus knew the World well enough, that those fort

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fort of requests are but a modest simulation ; and a difobedience would have been eafily pardoned. In the LXXIV Letter, he proclaims and glories to his enemy Orfilochus, that Pythagoras had stay'd five Months with him : why fhould he then feek to conceal from Posterity the twelve Years familiarity with Stefichorus? Pindar, exhorting Hiero the Tyrant of Syracule to be kind to Poets and Men of letters, tells him how Creefus had immortal praise for his friendship and bounty to them, but the (w) (w) Pyth.i. memory of that cruel and inhospitable Phalaris po zarxies was hated and curfed every where. How could ravines, Pindar have faid this, had he heard of his "Ex. Jed. extraordinary dearnels with Stefichorus? Adraew For their acquaintance, according to the sart xes Letters, was as memorable and as glorious, The gaas that of Creefus with Æ fop and Solon. So that Pindar, had he known it, for that fole kindness to his fellow Poet, would have forborn fo vile a character. Plato, in his Second Epistle, recounts to Dionyfus fome celebrated friendships of learned Men with Tyrants and Magistrates; Simonides's with Hiero and Paufanias, Thales's with Periander, Anaxagoras's with Pericles, Solon's and others with Crafus. Now, how could he have miffed, had he ever heard of it, this of Stepchorus with Phalaris? being transacted in Sicily, and so a most proper -ITCISION-

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proper and domeftic Example. If you fay, the infamy of Phalaris made him decline that odious inftance : in that very word you pronounce our Epistles to be fpurious. For if They had been known to Plato, even Phalaris would have appeared as moderate a Tyrant as Dionyfus (x) In Pha- himfelf. (x) Lucian, that feigns an Emlar. prior. bally from Phalaris to Delphi for the dedication of the Brazen Bull, makes an Oration in his Praife, as Mocrates does of (m) Patha Bufiris ; where, without doubt, he has T & 3 Jackgathered all the stories he knew for Topics and rearing NULLTREC of his commendation : but he has not one \$387.800 V 600 word of his friendship with Stefichorus. EX Best Nor, indeed, has any body elfe. And do not you yet begin to suspect the credit of -100 JET 1000 the Letters and aldaromanica asw aranged

It would be endless to profecute this part, and shew all the filliness and impertinency in the Matter of the Epistles. For, take them in the whole bulk; if a Great Person would give me leave, I should fay, they are a fardle of Common Places, without any life or spirit from Action and Circumstance. Do but cast your eye upon Cicero's Letters, or any States-man's, as Phalaris was : what lively characters of Men there ! what descriptions of Place ! what notifications of Time ! what particularity of Circum-

and Elop's Fables. 110

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Circumftances ! what multiplicity of Defigns and Events ! When you return to thefe again, you feel, by the emptinels and deadnets of them, that you converfe with fome dreaming Pedant with his elbow on his desk ; not with an active, ambitious Tyrant, with his Hand on his Sword, commanding a Million of Subjects. All that takes or affects you, is, a fliffnels and flatelinels and operofenels of Stile : but as that is improper and unbecoming in all Epiftles, fo efpecially it is quite aliene from the character of *Phalaris*, a man of bufinels and difpatch.

XVI. It must needs be a great wonder to those that think the Letters genuine ; how or where they were conceal'd, in what fecret Cave, or unknown Corner of the World; fo that no body ever heard (2) Pb2of them for a thousand years together. Some trufty Servant of the Tyrant must NO VOVEC have buried them under ground; and it 23 . 214 17 was well that he did fo. For if the Agri--= II . brds gentines had met with them, they had errer in certainly gone to pot. They that burnt 218 MALES 65" alive both Him, and his Relations, and his Friends ; would never have spared fuch monuments of him, to furvive Them and their City. And without doubt it was immortal Vellum, and ftoln from the (y) Parchments of Jove ; that could () A1934. laft par Dios. pedantry

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last for ten Ages, though untouch'd and unstirr'd ; in spight of all damp and moisture, that moulders other mortal skins. For had our Letters been used or transcribed during that thousand years; fome body would furely have spoken of them. Especially fince fo many of the Ancients had occafion to do fo : fo that their filence is a direct argument that they never had heard of them. I have just now cited fome passages of Pindar, Plato, and Lucian; which are a plain indication, that they were unknown to those Three. Nay, the last of these, besides the proof above-named from his filence and prætermission, does as good as declare expressly, that he never faw our Epistles. For, not

(3) Phayo's my a. 7 67. 8 ibid. IIeeiraos ny ns nueda-Tros.

64

to mention other differences of lefs moment, he makes both (z) Phalaris, and lar.1. 'En his Smith Perilaus, to be born at Agrigaver in gentum ; but the Letters bring one of Axednav- them from Astypalæa, and the other from Athens. Lucian then knew nothing of them; or at least knew them, as I do, to be fpurious, and below his notice. Much lefs could he be the Author of them, as Politian and his followers believe ; for he would neither have been guilty of fuch flat Contradictions; nor have fo forfeited all Learning and Wit, by those gross blunders in Chronology, and that wretched pedantry

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pedantry in the Matter. And whofoever those Authors were, that Lucian followed, in his Narrative of Phalaris; They too are fo many Witneffes against the Episitles. One can hardly believe, indeed, that the Sophift fhould venture to fetch his Tyrant from Astypalæa, without the warrant. of fome old Writer. But yet Lucian and his Authors compell us to think fo. And we find him as fool-hardy on other occafions. (a) Heraclides of Pontus, that lived within (a) De Potwo Centuries of Phalaris's Age, fays, the dit. Everypr Agrigentines, when they recovered their unteg. Liberty, burnt Him and his Mother : but our Sophist makes him an Orphan; (b) depa- (b) Epift. vias Tree Sivay; which if any one shall con- xlix. tend to mean the lofs of his Father only, yet still He and Heraclides will not fet horfes together. For if Phalaris fled alone from Altypalæa, neither Wife nor Child nor any Relation following him, according to the Letters ; how came the Old Woman to be roafted at Agrigentum? (c) Fam. (c) Vita blichus brings in Abaris the Hyperborean 'ythag. in company with Pythagoras, to Phalaris's P. 183. Court: But our Sophist has writ a (d) Letter for him, wherein he refuses to come. So (d) Epist. little regard had he, to fit his stories to true Hiftory : and I have had too much regard to him, ingiving him the Honour and Patience of fo long an Examination.

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I must

I MUST now beg the favour of one word with our late Editors of this Author. They have told the world, in their Preface, That (among other Specimens of their Diligence) they collated the King's MS. as far as the XL Epiftle; and would have done

(e) Præf. Phalar. Edit. Oxon. Manuscripto in Bibliotheca Regia, cujus mihi copiam ulteriorem Bibliothecarius pro singulari sua bumanitate negavit.

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fo throughout, but that the Library Keeper, (e) out of his fingular Humanity, denied them the further use of it. This was meant as a Lash for Me, who had the Honour then fi

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and fince to ferve His Majesty in that I must own, 'twas very very Office. refolv'd of them, to make the Preface and the Book all of a piece; for they have acted in this Calumny both the injustice of the Tyrant, and the forgery of the Sophift. For my own part, I should never have honour'd it with a Refutation in Print, but have given it the Negleft that is due to Weak Detraction ; had I not been engaged to my Friend, to write this Cenfure upon Phalaris; where to omit to take notice of that Slander, would be tacitly to own it. The true flory is thus: A Bookfeller came to me, in the name of the Editors, to beg the use of the Manuscript. It was not then in my cuftody : but as foon as I had the power of

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of it, I went voluntarily and offer'd it him; bidding him tell the Collator not to lofe any time; for I was fhortly to go out of Town for two Months. 'Twas deliver'd, used, and return'd. Not a word faid by the Bearer, nor the least fuspicion in me, that they had not finish'd the collation. For, I fpeak from experiment, they had more Days to compare it in, than they needed to have Hours. 'Tis a very little Book, and the Writing as legible as Print. Well, the Collation, it feems, was fent defective to Oxon; and the blame, I suppose, laid upon Me. I return'd again to the Library, fome months before the Edition was finish'd : No application was made for further use of the Manufcript. Thence I went for a whole fortnight to Oxon, where the Book was then printing; converfed in the very College where the Editors refided. Not the least whisper there of the Manuscript. After a few weeks, out comes the new Edition, with this Sting in the Mouth of it. 'Twas a furprize, indeed, to read there, that our Manufcript was not perufed. Could not they have ask'd for it again, then, after my return ? 'Twas neither fingular, nor common Humanity, not to enquire into the truth of the thing; before they ventur'd to Print, which is a Sword in the E 2 Hand

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Hand of a Child. But there is a reason for every thing; and the mystery was foon revealed. As for the King's Manuscript. they had no want nor defire of it; for, as I shall shew by and by, they had neither industry nor skill to use either That or their Own. And for my part; I, it feems, had the hard hap, in fome private converfation, to fay the Epistles were a spurious Piece, and unworthy of a new Edition. Hinc illæ lachrimæ. This was a thing deep-Jy refented; and to have spoken to me about the Manuscript, had been to lose a plaufible occasion of taking revenge.

Pro fingulari sua humanitate ! I could produce feveral Letters from learned Profefforsabroad, whose Books our Editors may in time be fit to read ; wherein these very fame words are faid of me candidly and ferioufly. For I endeavour to oblige even Foreigners by all Courtefie and Humanity ; much more would I encourage and affift any useful Defigns at home. And I heartily wifh, that I could do any fervice to that young Gentleman of great Hopes, whofe Name is fet to the Edition. I can do him no greater at prefent, than to remove fome blemishes from the Book that is afcribed to him : which I defire may be taken aright; to be no disparagement to himself, but a reproof only to his Teachers. It

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It is counted an ill Omen to stumble at the Threshold. In the very First Epistle to Alcibous, we have these words, Yuyns) voov ialegis iaray Aaval G. & averax 9:-בעלטע מידו דוסא אבי אי עובן אביע מאזאות מדעון צה מאודהושי שי לאוסן שבקוףלהבוג, מאא לאודהושי wor auto's eigrasay wegodites : that is, For a disease of the Soul, the only Physician is Death : do you therefore expect a most painful one for those many and great injustices, not involuntary ones, such as you accuse Me of, but voluntary ones that your felf have committed. Let us see now, how our new Editors have managed this passage. First, they interpret average Secolor, nulli gravem: meaning, I suppose, that Alcibous's death would be grievous to no body. Which not only produces a flat and farfetcht fense, but is contrary to the rules of good Language. For the Greek is in the Superlative degree : let them put it then nulli gravissimam; and it will shew them the errror of their Version. will be evident to fuch as know propriety of Speech, that avertax Desalor, fince no Dative Cafe follows it, must be referred to Alcibous, and to no body elfe. I do not expect from our Editors much fagacity in way of Critic : but though they could not of themselves find out the true Reading; yet methinks they might have em-E 3 braced.

braced it, when they faw it in the Manufcript ; which reads it, du av enay Sesalow, a most grievous and cruel death; meaning that in the Brazen Bull ; which he calls, in the CXXII Epist. Thebegu az Inegralow, an epithet of the fame root and fignification. "Av in this place, is an expletive particle, Tagar Anpaparing, as the Grammarians call it; which being a rare and quaint ulage, was the caule of corrupting the Text.

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The next words in the fame passage, adunmarav, in ansolw, our elegant Interpreters render scelera, non invita. And this we are to receive for one of their (f) Praf. many (f) improvements after the former Translators. Those Old ones, good honest Men, put us off with plain country Latin, Scelera, non præter voluntatem patrata, and other fuch Periphrafes. For, as it was in their days believed, axov fignified unwilling, and was always meant of the Agent : axison was involuntary, and generally meant of the Action. And this latter, when it fignifies the Action, cannot be expressed in Latin by one single word. For Involuntarius was not in use : and Invitus is the fame with axwv, and is always spoken of the Person, never of the Thing. So that if any body elfe had faid scelera invita, unwilling Crimes; some bold

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bold Readers would be apt to take it for Barbarism and Nonsense: but coming from those great Genius's, with whom Learning, that is a leaving the world, has taken her last residence, they receive this as a new discovery in Language ; like (g) ano- (e) Sup. ther of theirs in Geography.

In the very next words to thefe, ansolwr, av Epol medperrens; let us fee if they make any better work there. Invita, ad quæ me hortaris; Involuntary Crimes, to which you exhort me, fays the version of our late Editors. Admirably well done again ! Pray, how can this Alcibous, a Meffenian, be faid to exhort him to those Cruelties, who fo much abhorred Him and Them, (as it is in this very Letter,) that he had the Phyfician his Townsman tried for his own Life, for faving the Tyrant's ? It would puzzle a common Wit to reconcile this; but here's a Note upon this passage, that will fet every thing aright. (b) Ad quæ me hortaris;] i. e. Mo- (b) Annos. ribus tuis nequissimis provocas. Commend p. 145. me to these Annotators for a help at a dead lift. To provoke a Man, we fee, with the basest tricks, is, in their language, to exhort him. So that when They, by a vile aspersion, instead of thanks for a kindness receiv'd, have given me just provocation to answer them as they de-E 4 ierve ;

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ferve ; it is only, in their manner, to exhort me to do it. It is my fingular Humanity, that I do not follow their Exhortation. But I am apt to believe, that even the Sophist himself, as illiterate as he was, would difdain to own fuch a version to be the Echo of his meaning. Had he had in his thoughts fo ridiculous a fense as they father upon him; he would have faid then, eis à, or, ip' à ine megletness. For that is the Syntax of @eglpena, when it fignifies to exhort. Whereas à èpoi acolpeners (the $\tilde{\omega}\nu$ in the Text is for $\tilde{\alpha}$) is, in that fenfe, as abfurd and incongruous in Greek; as Quæ mihi hortaris, or, Quæ mihi provocas would be in Latin. I think I have fhewn already, that megletnew is here iversiden, exprobrare, to accuse and reproach : Those involuntary wrongs, that you lay to my charge. Tis true, the word is not used in this acceptation by any ancient Authors. I have mention'd it therefore above, as a token of a more recent Writer. But without doubt it was of known use in the age of the Sophist; and the innovation was not at all improper. For as the Ancients, both in Poetry and Profe, used acopteen to denote this meaning ;

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fo by a like metaphor and analogy, we may use $\frac{\partial p}{\partial m}$ to express the same notion : just as the Latins say, vitio VERTERE. All this, I suppose, was known to the Translator of *Phalaris*, who is commonly, but, I believe, falsly supposed to be *Cujacius*; for he interprets it very well, *Cujus modi mihi objicis*. But that Edition, and another of *Aldus*, tho' the two principal of all, and both of them in the public Library at *Oxon*, had yet the odd fortune to lie all the while conceal'd (*i*), from our late Editors that (*i*) *Praf.* lived there. P. 3.

I was, but just now, in the mind to oblige them, by going through their whole Book, and correcting for them all the Faults, that give offence to the best Readers. But now, that I caft my eye backwards, it makes me look as blank, at the profpect of all that's to come; as Hercules did, when, after he had made a bargain unfeen, he faw the Stables of Augeas. For if the very First Epistle, of nine Lines only, has taken me up four Pages in fcouring ; what a fweet piece of work fhould I have of it, to cleanse all the rest for them? I must beg their Excuse therefore for the present ; and shall only, to keep my Promife, give one Touch of their industry and skill, in making use of the Manuscript.

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They have confelled to us, they col-(1) Pref. lated the Manuscript to the (k) XL Epiftle. But, it feems, they could make no ufe of its various Lections, but in one fingle place, Epist. xxvi. It is writ to one Ariphrades, to caution his Son to leave off plotting against Phalaris ; iva, Erav בד מטידם קציחומן דם אמצה לומופועטע כי סוב יכו. un are go noin In Sonew novonnevay; left, when punishment overtakes him for persisting in his present courses, he pretend he had not fair warning. But what now do our new Editors make of this ? Stalewar er ois Br, they translate, suam expendens conditionem. This puts me in mind of the old Greek Proverb, That Leucon carries one thing, and his Ass quite another. For here's no affinity at all between the Text and the Verfion ; which would every whit as well agree to any other words in the Book. Even our Editors themselves feem fen-

(1) Dialeye alium fensum bic vix admitit . in eodem tamen usurpatum nullibi invenio. Melius itaque in MS. Regio Sid TIVEV en ois ba, ob ea qua jam agit. Annotat. pag. 146.

P. 4.

fible of this; for they give us this Note upon it, (1) That Staleva cannot admit here of any other meaning : and yet they find it no where elfe used in this sense. I dare pass my word for the truth of this

latter part : to the former I shall fay more anon. So that, fay they, the better Reading is in the King's Manuscript, Sa TIVWY

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Sta Tivar in ois Br, i. e. for those things which he now does. In the King's Manufcript, which I have now by me, it was written at first, Stareway : but another Hand has rafed out the ε , as appears by the void space, and made it dia Tiver. This Corrector, whoever he was, though we know him from hence to be a forry Critic; yet he was a degree above our new Editors. For he made his Twee an Enclitic; but they theirs an Interrogative, as we fee by their Accent. Which in this place is directly against either common Grammar, or common Senfe : chufe whether they pleafe. But the genuine lection and meaning is, as I rendred it above; Sialewar er ois ber, perfifting and proceeding in his present ways. So in the XXXIX Epist. Merar er ols Br., continuing in the present station. 'Tis true, our Editors will not find Sigleway thus rendred in their Dictionaries : but they may pleafe to enlarge them then from this very place. For, is not dialence exactly the fame as the Latin PERTENDO? And is not Pertendo, to perfift and perfevere ?

(m) Verum si incipies, neque pertendes naviter.

(m) Ter. Eunuch.

Even the Version ascribed to Cujacius has 1, 1. here the true interpretation, Persistens in proposito: which I would advise our Editors

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This is all the use they have made of the King's Manuscript : let us see if they have been more diligent in their own. In the xxxiv Epist. the Tyrant tells one Pollux, who wonder'd he was grown so recluse, and difficult of access ; $i\gamma\omega$ j iddificult, $and difficult of access ; <math>i\gamma\omega$ j iddificult,and filter and the found access for a set of the set

have given us here a cast of their Critic; (n) Legen- for (n) instead of *ivdifie ov* they venture dum for an to read *intervise ov*, ego jam sedulo omnes *intervise gov*, quam fugio: as for the former Lection, they eniminterconfess they know not what to make on't. pretaionem Here are your Work-men to mend an Au *ic admir*. thor; as bungling Tinkers do old Kettles: tat, non vi- there was but one hole in the Text before deo.

they medled with it, but they leave it with two. For the fault is not in Addigaego, but in Non; which is to be corrected Note: Addigaego Note, minus quam par eft, minus quam oportet. This is to very easie an Emendation, that a finall dole of fagacity might have found it out, by conjecture. But what will the Men of Letters think of our Editors? will they commend their skill or their industry most? when I affure them, that all the Three Manuscripts

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nufcripts which they pretend to have collated, have it plainly and fairly & Se. Which fault will the Editors plead to? to make a public boaft of collating Three Manuscripts, and yet neglect every one of them ? or, to have observed in the Manuscripts fo certain a Correction, without either knowledge to make use on't themselves, or ingenuity to communicate it to the world ? 'Tis a bad business on either fide; and yet it receives a great aggravation from this other which follows. Epist. LXVIII. Phalaris, to encourage his Son's Bounty ; I do not think, fays he, you spend me too much money, ann' Epaurov enderseer welongo non zensornts πaydos sompeles; but I rather think I allow you too sparingly, for so generous a Son. Here is codelste ev idn comes again. Now, every one of the Manufcripts have it here too h Sa: Two of which, they pretend, in their Preface, to have throughly collated. And yet they take not the least notice of this plain Emendation, crothereçu ndei, parcias æquo, parcius quam oportet; but blunder on with the vulgar (o) Egome Reading, and translate it, (o) But I find Pauperiorem invenio, my felf too poor to supply your Liberality. quam ut Which, belides that it does not answer filii benigthe words of the Greek, (which would ficere pof-

then have been, non, i zers.) makes mere fim.

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nonsense of the Context. For in the very next sentence, he tells his Son; *Tou shall sooner want friends to give it to*, *than I want money to give*. Ingenious Tranflators! to make him complain of Poverty, and in the same breath to declare that he has Riches without end.

Let this ferve for a fhort Specimen of their Care and Skill in using of Manufcripts. I have many more inftances ready at hand ; but their Humanity, I hope, will pardon me, if I don't produce them now; nor now proceed, as I once thought, to weed all their Book for them. My Time does not lie upon my hands; and this Tract must be only a short Appendix to the Book of my Friend : but it's likely hereafter, if, in their way of speaking, they mightily exhort me to it; I may be at their fervice; if not in this, yet in another Language : to carry the fame and glory of our Editors, whither fuch Editions as theirs feldom go, to foreign Univerfities.

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Prefume I have been as good as my word, in detecting the cheat of *Phalaris's Epiftles*: the other part of my Promife was a Cenfure of *Æfop's Fables*. But before I meddle with those, I am willing, now that my Hand's in, to examine fome other Impostures of this fort, out of the fame Schools of the Sophists. It will be no unpleasant labour to me, nor, I hope, unprofitable to others, to pull off the difguise from those little Pedants, that have stalked about so long in the apparel of Hero's.

The Epistles of Themistocles were printed first at Rome, in MDCXXVI, out of a Manuscript in the Vatican. The Editor, a Greek Bishop, believed them genuine; but there were some that suspected a Forgery, as (p) Leo Allatius informs us: who himself leaves the matter in doubt; (p) De but withal observes in their favour, that script. Sono body had ever faid a word in print, crat. p.78: to prove them to be spurious. (q) Suidas(9) V. OEic ⁴⁴⁵⁰⁸.

is an Evidence in their behalf; for, speaking of their reputed Author, he fays, he bas writ Letters full of Spirit, Eyealer Erisona's gegunnal & yensons. He, I think, is the only old Writer that makes any mention of them. Which alone, as before in Phalaris's case, is a shrewd prejudice against their Credit and Reputation. (r) Lib. 1. (r) Thucydides and Charon Lampfacenus

(s) Vita Themistoc.

p. 90.

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(1) Plutarch, Diodor. Athe-

fay that Themistocles, when he fled into Afia, made his address to Artaxerxes. who was newly come to the Throne ; wherein they are followed by (s) Cornelius Nepos and Plutarch ; against the common tradition of Ephorus, Heraclides, and most others, that make Xerxes the Father to be then alive. Some (t) Writers relate, that he had five Cities given him by the mans, &c. Perfian; others, but three. Now, if the Letters had been known to any of those Authors, both these Disputes had been soon at an end, or rather never had been raifed.

(") Ep.xx. For he himfelf expressly fays, (") it was Xerxes he went to, and that he gave him but three Cities. Now, where could thefe Epiftles lie, unknown and invisible from Themistocles's time to Suidas ? We must needs fay, that the Letters had a worfe Exoftracifm than their Author : fince he was banisht but for five Years, but they for a Thousand.

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II. 'Tis observable, That every one of the Letters bear date after his banishment : and contain a compleat Narrative of all his Story afterwards, without the leaft gap or interruption. Now 'tis hard to fay, whether is the more ftrange of the two; That not one fingle Letter of his. before that time, fhould be preferved ; or not one, afterwards, loft, though written from so distant places, Argos, Corcyra, Epirus, Ephefus, Magnefia, from whence there was no very fure conveyance to Athens. What a crofs viciffitude of Fortune! while the Author is in Profperity, all his Letters are unlucky; and not one of them is miffing, after he himfelf mifcarried. But the Sophist can eafily account for this, though Themistocles cannot : for here are no Letters before his Exile ; becaufe the latter part of his Life was the whole Tour and Compass that the Sophist defigned to write of : and not a Letter afterwards perished; because being forged in a Sophift's Clofet, they run no hazard at all of being loft in the carriage.

III. Themistocles was an Eloquent Man; but here are fome touches in his Letters of fuch an elevated firain, that if he did not go to School to Gorgias Leontinus the Sophift of that time, I can hardly believe he writ them. The Hiftorians tell us mok F derately.

derately, That after he was driven from home, he was made much on at Argos : but He himself is all melting, when he

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(w) Ep. i. talks on that Subject. (w) He was met, he fays, on the road by two Argivans of his acquaintance; who, when he told them the news of his Banishment, rail'd bitterly at the Athenians : but when they heard he was going to Delphi, rather than to Their town; in a kind quarrel they tell

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apywher.

(x)'Exact him, That (x) the Athenians had justly punified him; fince he fo much wronged the City of Argos, to think of any Sanctuary but that. Well, he goes with them to Argos; and there the whole City (y) 'Avaf- (y) teazes him by mere force to take the Gozal son, ws vernment upon him; taking it as the greavoi, in un test injury, that he offer'd to decline it. Thefe, you'll fay, are choice flowers both of Courtefy and of Rhetoric : but there's another clearly beyond them; where he

(z) Ep.xiv. tells us, (z) That he is fo refolved of going to the Perhan Court, though it was a desperate rifque; that neither the Advice of his Friends, nor his Father Neocles's Ghost, nor his Uncle Themistocles's, nor Augury, nor Omen, nor Apollo's Oracle it felf, should be able to dissuade him. Here's a bold refolute Blade for you ! here's your Stoical rene ! 'Tis almost impossible for a Sophift not to betray him-

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himfelf. Nothing will relifh and go down with them, that is ordinary and natural. Then they applaud themfelves moft, when they have faid a forced, extravagant thing. If one fpeaks of any Civility ; the Complement muft be ftrain'd beyond all Decorum. If he makes a Refolution ; he muft needs fwagger and fwear, and be as willful as a Mad man.

IV. The Subject of many of the Letters is Common place; mere Chat, and telling a Tale, without any Bufinefs; an Errand not worth fending to the next Town, much lefs to be brought from remote Countries fome hundreds of Leagues. The xv and xviii Letters are written to Enemies; his Friends, I fuppofe, failing in their Correspondence: and contain nothing but a little Scolding; which was fcarce worth the long carriage from Ephefus to Athens.

V. In the xx Epiffle we have this Story: When Themistocles was at Corcyra, he defign'd for Sicily, to Gelo the Syracufian Tyrant. But juft as he was going a Shipboard, the news came that Gelo was dead, and his Brother Hiero fucceeded him. Now, if we make it appear, that Hiero was come to the Crown fome years before Themistocles's Banishment, and this Voyage to Corcyra; what becomes of the F 2. Credit

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Credit of our Epistles? 'Tis true, the Chronology of this part of Hiftory is not (a) oun' fo (a) fettled and agreed, as to amount aurois xpor to a Demonstration against the Letters; un our ar- but however, when joined with the Arguments preceeding, at least it will come up Topleyous. Plut.Them. to a high Probability. (b) Theophrastus, P. 227. in his Treatife of Monarchy, relates, That (b) Пеей when Hiero had fent Race-horfes, and a Baonheiac apud Plut. most fumptuous Tent, to the Olympian Them. p. Games; Themistocles advised the Greeks 225. to plunder the Tyrant's Tent, 78 ruparvs, and not to let his Horses run. 'Tis evident then, if Theophrastus speak properly, that Hiero was Monarch of Syracufe, when Themistocles was at Olympia ; but it's most

(c) Var. Hift. ix,5.

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Exile.

But, to deal fairly, it must be confessed, that Ælian, in telling this ftory, varies from Theophrastus; for he fays, (c) Hiero himfelf came to the Games. But that he would go thither in Perfon, after he got the Government, is wholly improbable. So that, if Ælian be believed, this bufiness must have been done, before Hiero came to the Throne. For even in Gelo's life-time, who left him the Monarchy, he kept Horfes for the Race; and won at the (d) Pind. Pythian Games, (d) Pythiad the xxvi, Schol. Pyth. which answers to Olymp. LXXIV. 3. But belides

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besides that Theophrastus is of much greater authority, the other refutes himfelf in the very next words. For he fays, Themistocles hindred Hiero upon this pretence; That he that had not shared in the common Danger, ought not to share in the common Festival : where it's certain, by the common Danger, he means Xerxes's Expedition; when (e) Gelo either refused (e) Herod. VII. C. 163. or delayed to give the Greeks his affiftance. Diod. xi. This affront then was put upon Hiero, p. 21. after that Expedition. But the very next (f) Olympiad after, Hiero was in the (f) Diod. Monarchy. It cannot be true then, that XI. P. 29. his first accession to the Throne, was, according to the Letters, while Themistocles stay'd at Corcyra.

Befides these Inferences and Deductions, we have the express Verdict and Declaration of most of the (g) Chronologers, (g) schowho place the beginning of *Hiero's* Reign *Print.* Pind. Olymp.LXXV, 3. and *Themistocles's* Banish-Diod. xi. ment feven years after, Olymp.LXXVII, 2. P. 29,41. The Arundelian Marble, indeed, differs *Euseb.* in from all these, in the periods of *Gelo* and *Hiero*: which would quite confound all this argumentation from notes of Time. But either that Chronologer is quite out, or we can fastely believe nothing in History. For he makes *Gelo* first invade the Government, two years after Xerxes's Expedition.

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(b)Lib.vii. But (b) Herodotus spends half a dozen pages in the Account of an Embassy to Gelo from Sparta and Athens, to defire his affistance against the Persian. And 'tis (i)Herodot. agreed among all, (i) That Gelo's Victory bid. & over the Carthaginians in Sicily was got the very same day with the Battle at Salamis.

VI. The whole Volume of Themistocles's Letters confifts of xx1 only ; and Three of these are taken up in the story of Pausanias. The Second is writ to Paufanias himfelf, before that Spartan's Confpiracy with the Perfian was discovered. There he exhorts him to moderation in his Prosperity; left fome very great turn of Fortune should speedily befall him. Can you defire now a furer indication of a Sophift ?- Without doubt, he that penn'd this Epiftle, knew beforehand what happen'd to Paufanias : who was foon after recall'd home by the Magistrates, and put to death for Treason. The xix is to Paufanias again ; but after his Confpiracy was detected. Here he tells the Particulars of that Plot as exactly, as if he had been one of the Ephori, that over heard it. Nay, he foretells him, that the Lacedæmonians would take away his life. Now befides that Themistocles would fcorn to infult fo, and rail to no purpofe, as this Letter does; he would furely have had

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had more wit, than knowingly to write to the Dead. For at the fame time he heard those Particulars of *Paufanias*'s Treason, he must needs hear of his Execution; fince those things were not known till after his Death, and the rifling of his Papers. The v1 Epistle is a long Narrative of the whole business of *Paufanias*: for that was a Subject worthy of Eloquence, and therefore was to receive ornament from the Pen of the Sophist. But it was scarce worthy of *Themisscles*, to fend such a long News-Letter to *Athens*; where, in all likelyhood, the Story was common, before he heard of it himself.

But how shall we reconcile this Affair of Paufanias according to the Letters, with what Diodorus has left us upon the fame Subject ? The Letters, we fee, make Themistocles to be banisht, (k) before Pausanias (k) Ep.ii. was fuspected; and make the one refide at Argos, (1) while the other was convicted (1) Ep.xix. and put to death. But Diodorus, who has vi. brought all his Hiftory into the method of Annals, places the Death of Paufanias (m) (m) Lib.xi. Olymp. LXXV, 4; and the Exile of Themi- P. 36. stocles, (n) fix years after, Olymp.LXXVII, 2. (n) Lib.xi. Now, I would fain know of our Sophift, P.41. how he came to difpose and fuit his matters fo negligently; to bring Paufanias upon the stage again, when he had been fix F 4

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fix years in his Grave ? I imagine he will referr me to (o) Thucydides, who makes an (0) Lib. i. p. 88. immediate transition from one story to the other; ' That the Spartans accused Themistocles, who was then banisht from home, of confpiring with Paufanias.' This, indeed, might draw the Sophift and fome others into a mistake. But it may be taken two ways : either that it was done prefently, upon the Death of Pausanias; or a few years after, when Themistocles's Exile gave the Spartans, that hated and fear'd him, an (p) In The opportunity to ruine him. (p) Plutarch mift. p. follows the first way; for he makes Themi-224. stocles, after his Banishment, to have private dealings with Paufanias : in which opinion he favours the Author of these Letters. But the fecond will rather appear to be the fense of Thucydides : if we confider, that he places the matter of Pau. (q) P. 63. Sanias (q) just after the flight of Xerxes; but when Themistocles went into Asia, he (r) P. 90. makes (r) Artaxerxes to be in the Throne: which was a confiderable while after. Befides that Diodorus, whose design was to referr all Occurrences to Years, and not to follow the thread of Story beyond the annual Period, is of more credit in a point of Chronology; than Plutarch or any other, that write Lives by the Lump.

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SOCRATES'S EPISTLES.

HE Epistles of Socrates, and his Scholars, Xenophon, Aristippus, &c. were publish'd out of the Vatican Library by the Learned Leo Allatius; and printed at Paris, MDCXXXVII. He was fo fully perfuaded himfelf, and fo concerned to have others think, that they are the legitimate Off-fpring of those Authors they are laid to; that he has guarded and protected them, in a Dialogue of LVII Pages in quarto, against all the Objections that He or his Friends could raife. And no body fince, that ever I heard of, has brought the matter into controversie. But I am enclined to believe, that by that time I have done with them, it will be no more a Controversie, but that they are spurious. I shall make use of nothing that Allatius has brought, except one Objection only; and that I shall both manage in a new way, and defend it against all his Exceptions.

I. The First Letter is Socrates's to some King, 'tis supposed to Archelaus King of Macedonia; in which he refuses to go to him,

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him, though invited in the most kind and obliging manner. That he really denied his company to Archelaus and others, we are affured from very good hands : which was the ground for our Falfary to forge this Epistle. But I believe, none of those that mention it, make fo tall a Complement to Socrates, as he does here to himfelf. For he fays, (s) The King offer'd him part of his Kingdom ; and, that he should not come thither to be commanded, but to & Apgorla command both his Subjects and Himself. Can you defire a better token of a Sophift, than this? 'Tis a fine offer, indeed, to a poor old Man, that had nothing but his Staff and one Coat to his back. But a Sophift abhorrs mediocrity ; he must always fay the greatest thing ; and make a Tide and a Flood, though it be but in a Bason of Water.

II. Well; our Philosopher goes on, and give a reasons of his refusal; That his Dæmon forbid him to go : and then he falls into the long ftory of what happen'd to him in the Battle at Delium ; which was a tale of twenty years flanding at the date of this Letter. But the Sophift had read it in Plato ; and he would not mifs the opportunity of an eloquent Narration. I will not here infift upon the teftimony (t) Lib. v. of (t) Athenaus; That the whole business IS

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is a mere fiction of *Plato's*: let that be left in the middle. But we may fafely inferr thus much from it; That even *Athenæus* himfelf, whofe curiofity nothing efcaped, never met with thefe Epiftles. Which alone creates a juft fufpicion, that they were forged fince his days; efpecially when the universal filence of all Antiquity gives a general confent to it.

There's a passage, indeed, in (x) Libanius, (x) Analowhich, in Allatius's judgment, feems plain- gia Socrat. ly to declare, that he had feen this very Epistle. For after he had mention'd So-. crates's refusal to go to Scopas, and Eurylochus, and Archelaus; he adds; Autar 3 έδερμίω τω Έπισολών, ον έκείναις τ άνθρωπον ngir rise an idele. Now should we concede. what Allatius would have; this is all that can be inferred from thence in their favour ; That they are older than Libanius ; which I am willing to believe : and, That He believed them true ; which I matter not at all. For fo we have feen Stobaus. Suidas and others, cry up Phalaris for a genuine Book; and yet I fanfie none of my Readers are now of their opinion. But with Allatius's good leave, I would draw the words of Libanius to a quite contrary purpole. After he had faid, that many Princes had follicited Socrates, by Letter, to come and live in their Courts; and

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and he answer'd them all with a denial : But (fays he) I want the Letters themselves; in which you might perfectly see the Spirit of the Man. This, to me, is an indication, that the Letters he means were not extant. For if he had them in his hand, according to Allatius, how could he want them ? And 'tis plain, he speaks here of feveral Letters, being Replies to feveral Messages; but in this Collection here's but a fingle one. I wish (fays he) the Letters were to be had ; in those you might read his Character. If this be the fense of those words, as probably it is ; Libanius is fo far from being Patron to our Epistles, that he is a politive Witnels against them.

III. The VII Letter is writ by Socrates to one of those that had fled to Thebes from the violence of the xxx Tyrants : in which he gives him an account of the state of Athens . fince their departure ; That himfelf was now bated by the Tyrants, because be would have no hand in the condemnation of Leon the Salaminian : and then he tells the ftory at large. Now, here's a manifest discovery that the Letters are supposititious. For the business of Leon was quite over, before those Fugitives left the Town. For noph. Hift. lib. ii. p. Leon was murder'd (u) before Theramenes 467, 47°. was : and Theramenes was murder'd, before

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fore *Thrafybulus* and his Party fled to *Thebes*. And that *Socrates* means them in this Letter, 'tis evident from hence; That he fpeaks here of their Confpiracy, to refort privately towards *Athens* and fet upon the Tyrants: which afterwards came to pafs.

IV. The VIII, IX, XII, and XIII, are Letters of Jeft and Railery between Antiflhenes and Aristippus and Simon the Shoo-maker. 'Tis an affront to the memory of those Men, to believe they would fool and trifle in that manner; especially fend such impertinent starts form Sicily to Athens, which could not decently be spoken even in merriment at a Table.

V. In the XIII Epiftle, among the acquaintance of Simon he names Phædrus, the fame that gives the Title to the Dialogue of Plato: and the xxv is writ by Phædrus himfelf to Plato : and both thefe are dated after Socrates's death. I will appeal now to Athenaeus, if these two Letters can be genuine. He, among other Errors in Chronology for which he chaftifes Plato, brings this in for one; (y) That he intro-(y) Lib.xi. duces Phædrus discoursing with Socrates; Pag. 505who must certainly be dead before the days 3 x Datof the Philosopher. How comes he then Serveda to furvive him, in these Epistles; and The is. Ewregdiscourse to passionately of his Death? Tis

"Tis true; for want of ancient Hiftory, we cannot back this Authority with any other Teftimony. But I am fure, all those that have a just esteem for Athenaus, can have no flight one of this Argument against the credit of the Letters.

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VI. The XIV Epiftle gives Xenophon a long Narrative of Socrates's Tryal and Death; being writ prefently after by one of his Scholars that was prefent at both. Among other particulars, he tells him, (z) That the Oration or Charge against Socrates was drawn up by Polycrates the Sophist. But I doubt this will turn to a Charge against another Sophift, for counterfeiting Letters. For, I think, I can plainly prove, That at the date of this Letter there was no fuch report ever mention'd, that Polycrates had any hand in it; and, that this false Tradition, which afterwards obtained in the World, and gave occasion to our Writer to fay it in his Letter, did not begin till fome years after Socrates's condemnation.

(a) Vita Socrat. Diogenes Laertius brings Hermippus's testimony, That Polycrates made the (a) Charge. Συνέγεαψέ 🕉 τ λόγον Πολυαράτης δ σοφισής, ώς φησιν Έεμιτωπ G.. But, in opposition to this, he presently subjoins; "That Favorinus, in the First "Book

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" Book of his Commentaries, fays, That " Polycrates's Oration against Socrates " is not true and real : because he men-" tions in it the Walls, built by Conon " fix years after Socrates's death." To which Laertius fubscribes his own affent, Kai Egiv Stas Exov, And So it is. I may freely fay, that this passage of Favorinus has not been yet rightly underftood. It is generally interpreted, as if he denied the Oration that is attributed to Polycrates to be really his. But this is very far from being his opinion. For then he would be flatly confuted by Ifocrates, a Witnefs unanfwerable; who, in a Difcourfe which he addresses to this very Polycrates, tells him; (b) I perceive you value your felf (b) 'Emitin most upon two Orations, The Apology of Beoreedos anotoria, Bufiris, and Acculation of Socrates. But xi Ti Zw-Favorinus's meaning was ; That Polycrates regres redid not make that Oration for a true Ifoc. Bufir. Charge to be fpoke at the Tryal of Socrates; but writ it feveral years after, for no other Trial than that of his own Wit. The words in the Greek can admit of no other fenfe; Mi Eivas ann Ti T Nozov + No-אטאףמידוג אמוע בשאףמידוג כי מטידע על וויאproveder The too Kovan Q. Terzar, Ec. Ob. ferve, that he fays unproveder, Polycrates mentions : if he had denied him to be the Author, he would have faid in the Paffive, There

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There is mention'd. Besides he expressly calls it + λόχον + Πολυχράτες; only denies it to be any ... But if he had denied it to be His, he would have faid, Min eiver IIoλυχράτες τ λόγον τ καλά Σωχράτες: as (c) In Xe- Laertius speaks in other places; (c) Aanenoph. למן עבעומי חוסאולביע, אי קחסט צע בעיטן בניט-(d) In A.f. quivi & Mayons Duminter Q. (d) Diaλόγες, ές Πεισίσεα/Q. δ Eptor Q. Enere μin Eway Algivs. This, I think, is fufficiently clear. Now we are to know, it was the cuftom of the old Sophifts to make an oftentation of their Art, upon some difficult Subjects and Paradoxes, fuch as other people could speak nothing to : as the commendation of a Fever or the Gout. Polycrates therefore, to shew his Rhetoric in this way, writ an Apology of Busiris; that kill'd and eat his Guests ; (e) and of Clytemnestra, that murder'd her Husband : and to give a proof of his skill, as well in acculing Vertue, as in exculing Vice, he writ an Indictment against Socrates ; not ann, the true one, as Favorinus truly fays, but only a Scholastic Exercise; such as Plato, Xenophon, Libanius and others writ in his Defense. So that we are no more forced to believe, that His Oration was the true Charge that was spoken at Socrates's Tryal; than, that he really pleaded for Clytemnestra, when Orestes was going to kill

(e) Quintil. lib. ii. cap. 18.

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kill her. Nay, it appears to me, from Ifocrates himfelf, that it was but a Scholaftic Exercife, and after Socrates's death. For he blames Polycrates, for reckoning Alcibiades among Socrates's Difciples : fince, befides that no body elfe ever counted him his Scholar; had he really been fo, he had been a commendation to his Mafter; and not a difparagement, which was the aim of the Sophift.

(f) So that (fays he) if the dead could have knowledge of your Writings, Socrates would thank you. Is not this a clear indi-

(f) Εἰ γένοιτο Ξευσία τοῖς τετελευτηκόσι βελεύσαῶς τέὶ τῶ ἐρημένων, ὁ μέν χάειν ἀν ἐἰδ'ἐἡη συ. Ijoc. Bujir.

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cation, that Socrates was dead, before the Oration was made ? and that this was not the true Charge ? For then he would have heard it at his Tryal : and there had been no occasion to fay, if the dead could have knowledge of it. In the close of all, he advifes him to leave off fhewing his parts upon fuch villainous Themes, mounpàs two. Stores; left he do public mischief by putting false colours upon things. Here again we are plainly told, that his Action against Socrates, like those for Busiris and Clytemnestra, was but a Declamation, a Theme and Exercise in the School, and not a real Indictment in the Areopagus at Athens. To all which let me add, That neither Plato nor Xenophon nor any body contem-

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contemporary with Socrates, ever once mention Polycrates for the Author of the Charge : which, had the thing been true, they would certainly have thrown in his teeth, confidering the perpetual quarrel between Sophifts and Philofophers. And 'tis well known; that the Athenians, in a penitential mood, either banifht or put to death all those that had any hand in Socrates's accusation. If Polycrates then were so eminently guilty, as to draw up the Impeachment; how could he escape untoucht, when all the reft fuffer'd ?

But when the Acculation of Socrates, though only a Sophiftical Exercise, came abroad in the world; it was natural enough, in fome process of time, that those that heard of it only, or but perfunctorily read it, should believe it to be the real Charge. We have feen already, that Hermippus was in that miftake, who lived an hundred years after ; and with him Quintilian, Themistius, and others innumerable. Favorinus, it feems, alone had the fagacity, by a notice from Chronology, to find it of a more recent date than Socrates's Tryal. And even that very passage of Favorinus has lain hitherto in the dark: fo that my Reader may forgive me this prolixity and niceness; fince he learns by it a piece of News. As for Hermippus, CCD CCD. left

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left the Authority of fo celebrated an Author fhould deterr one from fo plain a truth ; I will fnew another flip of his, and a worfe than this, in the ftory of Socrates. When Gryllus the Son of Xenophon was flain in the fame battle that Epaminondas was; most of the Wits of that Age writ Elegies and Encomium's on him, in complement and confolation to his Fa-Among the reft, * Hermippus fays, * Laert. ther. * Ldert. in Socrates was one. Which is a blunder of no lefs than xxxvII years, the interval between Socrates's death and the battle of Mantinea.

Socrates was put to death Olymp. xcv, 1. when Laches was Magistrate. This is univerfally (g) acknowledged; and to go about to prove it, (g) See Dio

were to add Light to the Sun. And fix years after this, Olymp. xcv1, 3. (b) in Eubulides's Magistracy, Conon repair'd the Walls. Which gave (g) See Diodorus, Favorinus, Diog. Laertius, Aristides, Marmor.Arund. Euseb. Argumentum Isocr. Busir. &c.

(h) Diodor. xiv. p. 303. Favorin. Diog. Laert.

the hint to Favorinus, and after him to Diogenes, to different the common miftake about Polycrates's Oration. But Leo Allatius, to avoid the force of their Argument, undertakes an impossible thing; to prolong Socrates's life above twenty years beyond Laches : fo that He might fee Conon's Walls, and Polycrates's Decla- \times G 2 mation

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mation be the true Charge at his Tryal. Which he would make out by comparing together fome Scraps of different Authors, and some Synchronisms of other Men's Lives with Socrates's. As if those things which are only miftakes and unwary flips of the Writers, could have any force or credit against fo many express Authorities. By the fame way that he proceeds, I will flew the quite contrary; * Lacrt. 23 Kenophs. that Socrates died twenty years before Laches's Government. For we have it from good Hands, (i) That Euripides, in (i) Diog. Laert. in a Play of his call'd Palamedes, using these Socrat. Arwords, Engiver, ingivele Tav maroopor, Ec. gum. Ifoc. defigned to lash the Athenians for Socrates's

murder : and the whole Theatre perceiving it, burft into tears. Socrates thereadorns, Fa-" LACTERS, fore died before Earipides. But 'tis well known, that the latter died fix years before Laches was Archon. Nay, Socrates 14- 9-30S must needs be dead, before Palamedes L 1877. was acted. But that was acted Olymp. (b) Alian. XCI, I. (k), which is fixteen years before Var. Hift. Laches. Have I not proved now exactly II. I. Schol. the quite contrary to Allatius? But still, Ariftoph. Opvil. p. I hope, I have more judgment, than to 401. credit fuch an oblique Argument against fo many direct Testimonies. If Allatius had looked round about him, he would not have committed fo great a blunder;

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while he defends his Epiftles at one Poft, to expose them to worfe Affaults. If Socrates died in Laches's Magistracy, one Epistle must be spurious, that mentions Polycrates. This Breach Allatius would fecure ; and therefore he will needs make him live feveral years longer. But then, fay I, if we concede this to Allatius; not one Epiftle only, but the whole bundle of them are fpurious. For most of them plainly fuppole, that Socrates died under Laches. Even this very Epiftle complains (DEp.xiv. (1) that Xenophon was abroad when So-ELCUT CL. crates fuffer'd; and that the Expedition and (P) in cie sebarroi of Cyrus hindred him from being pre-TIYON SH). fent then at Athens : and a fecond Letter, XVIII. to name no more, dated after Socrates's (r) Zevodeath, makes Xenophon to have newly 151695 div102 elcaped the dangers of his long March Sugar series through Enemies Countries. Now, all Latte, its the world knows, (m) that Cyrus's Expe- (m) Marm. dition and Kenophon's March was in Laches's Arund. Laert. Diotime, and the year before him. So that up- dor. &c. on the whole ; there is no escape, no evafion from this Argument; but our Epiftles must be convicted of a manifest Cheat.

VII. In the xv11 Letter, one of Socrates's Scholars, supposed to be prefent at Athens when the things he fpeaks of were acted, $(n)^* Avo$ fays, the Athenians (n) put to death both MERADON Anytus and Melitus, the Profecutors of a Trialer-Socrates : vav. G 3

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(o) Laert. Socrates: which being contrary to known in Socrat. (or in Antifth. a forgery. Melitus, indeed, was kill'd; Themist. Orat. ii. Augustin. veral Writers speak of him afterwards at de Civ. Dei, Heraclea in Pontus.

VIII. The XVIII is a Letter of Xenophon's, inviting fome Friends to come to fee him, at his Plantation near Olympia. He fays, Aristippus and Phædo had made him the

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a Vifit : and that he recited to them his (p)'Amou- (p) Memoirs of Socrates; which both of พทุนองอบthem (q) approved of. This alone is fuffiplata. (q) 'Estives cient to blaft the reputation of our faaguida mous Epistles. For, how is it likely, that TIVOL ED. Aristippus would go fo. far to fee Xenophon, who (r) was always his Enemy ? Much (r) ZEVOlefs would he have given his approbation QUI DELXE Tegs aulor to a Book, that was a Satyr against him-SUGMEYES. felf. For the Book is yet in being; and Laert. in Aristippo. in it he introduces Socrates, in a long (s) Xenoph. Lecture, reprehending Aristippus (s) for Memorab. his Intemperance and Luft, Even Laerlib. ii. in tius takes notice, That he brought in princip. Aristippus's name upon that scandalous occasion, out of the enmity he bare him.

> IX. We have already feen Xenophon writing Socrates's Memoirs at Scillus, near Olympia. But in the XXII, to Cebes and Simmias, he is writing them at Megara; for there the

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the Letter is dated. And in the xx1, to Xanthippe, he invites her to come to him to Megara. One would think, there was more Sophifts than one had a finger in this Volume of Letters : or if he was but one Author, Nature gave him a fhort Memory without the bleffing of a great 'Tis true, upon Socrates's Execu-Wit. tion, his Scholars left Athens for fear, (t) and retired to Megara, to the house (t) Laert, of Euclides : which occasion'd our Sophist in Euclid, to bring Xenophon thither too. But he should have remembred, that while They were scared out of Athens for fear of their own Lives, He was fafe at a great diftance in the retinue of Agefilaus; from whole company he went to Scillus, without ever refiding at Megara. Nay, the Sophift is fo indifcreet, as to bring in Xenophon in. forma pauperis, to beg and receive relief from Cebes and Simmias : whereas every (u) Laere. body knows, that he got great riches in in Xenoph. Xenoph. the War, (u) and lived in very great Exp. Cyri, fplendor and hospitality at Scillus. Lv. p.350.

X. In the xxiv Epiftle, Plato fays, he is quite weary of a City Life; and had therefore retired into the Country, Siz-Ipibar & maxpar Epesiadar, which Allatius translates, non longe ab Ephestiadibus. He ought to have faid, ab Hephæstiadis. For the true word in the Greek, is Hoansadav. Plato G 4

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& XI.

Plato had fome Effate there, which he disposed of in his Will: To en Hoaysadin ywe lov, as 'tis in (w) Laertius. Hefychius: (w) Vita Hogystaday, A. Suvaior. Stephanus Byz. Hogsiaday, d'inu a Annalar ora romada, E Hearsadar, Ec. In the Roman Manufcript of Laertius, 'tis writ engine day : which manner of spelling is found also in Hesychius, Igin B., Nows, ap' & Iquaday. If the Reader does believe, that our Letter-monger, (r) Luirr. like Hefychius, spelt the word wrong; he will be fatisfied of the forgery : For furely, Plato himfelf knew the true name of his own Effate. But if he encline to abfolve the Author, and lay the blame upon the Copyers; he may pleafe to accept of this, only as an Emendation.

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XI. The xxvII Epiftle is Aristippus's to his Daughter Arete : which, perhaps, is the very fame that is mention'd by Laertius; who, among the Writings of this Philosopher, names Enirolle acos Aphrice + Injarieg. Allatius, indeed, is ready to vouch it : but I am not fo eafie of belief. For here are (x) two other Letters of his in this Parcel, and both of them writ in the Doric Dialect, though directed to Athens : because, forsooth, he was a Gyrenæan, and the Doric his native Tongue. Pray, what was the matter then, that in this he uses the Attic; though he writ from Sicily

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Sicily a Dorian Country, to his own Daughter at Cyrene ? One would fuspect, as I observed before, that a couple of Sophifts clubb'd to this Collection: 'Tis true, we know, from Laertius; that of xxv Dialogues publisht by Aristippus, some were in the Doric Idiom, and some in the Attic. But that, I suppose, was done because of the variety of his Persons. In fome Dialogues the Speakers were Sicilians, and those were writ in the Doric ; and where the Athenians were introduced, the Attic was proper. But now, in this Letter to his Daughter, both Parties are Dorians; and fo this Epiftle should rather be Doric, than either of the other two.

XII. In the fame Letter he mentions her Eftate in Bernice, $\pi \partial \partial \mu$ Bigvien $\pi \partial h \mu a$. There is no queftion but he means Bipevien; perhapsthat City not far from Cyrene. But there was nothing then in all Afric called by that name: for Bipevien is the Macedonian idiom for Φ apevien, the Victorious. In that Countrey, ϕ was generally changed into β : as (γ) inftead of regalt they faid $\pi \beta \beta h$; (γ) Eym. for $\phi i \lambda i \infty \pi G$, $\beta i \lambda i \infty \pi G$; for $\phi a \lambda a \pi e^{i\beta}$; (γ) Eym. $\beta a \lambda a \pi e^{i\beta}$; and fo in others. So that Bipevien was unknown in Afric, till the Macedonians came thither: and indeed, they had their namesfrom the Wives of the Ptolemees; a whole

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whole century of years after the date of this Letter.

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XIII. He goes on, and tells his Daughter. That if he should die, he would have her go to Athens, and live with Myrto and Xanthippe the two Wives of Socrates. It was a common Tradition among the Writers of Philosophic Hiftory, that Socrates had these two Wives at once; and from thence our Sophift made them the comple-

(3) Laert. ment of a place in this Epiftle. (2) There in Socrat. are cited as Authors of this ftory, Cal-Plutarch. Aristid. A. listhenes, Demetrius Phalereus, Satyrus, then. xill. and Aristoxenus, who all took it from Ari-P. 556. Stotle in his Book Of Nobility, and Eige-

veizs. But Polygamy being against the

Law of that Commonwealth, and the ftory

therefore improbable; Hieronymus Rhodius

produces a temporary Statute made in Socrates's days, That by reason of the fcarcity of People, a Man might marry two Wives at a time. But notwithstand-(a) Athe- ing fuch a flush of Authorities, (a) Panætius næus, Plu- the Stoic, a very great Man, writ expresly against all those named above; and, in (b) ingrass. the opinion of Plutarch, (b) (ufficiently confuted the Tradition of the Two Wives. For my own part, I dare pin my belief upon two fuch excellent Judgments, as Plutarch's and Panætius's; and upon their credit alone, pronounce this Letter to be an Imposture

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pofture. What grounds they proceeded on I cannot now tell; but I think there is apparent reafon for rejecting the ftory, even laying afide their teftimony. For none of Socrates's acquaintance, not Plato, not Xenophon, fay one word of this Myrto. Aristotle, we see, was the first that mention'd her : but (c) Plutarch (c) Ibid. fuspects that Book to be spurious. So that all this Tradition role at first from a Falfary, that counterfeited Aristotle's name. Befides, they do not agree in telling their tale; one fays, that he had both Wives together : another, that Myrto was his first Wife, and the second came after her death: another, that Xanthippe was the first. Let either of them come first, and our Epiftles are false; for here we have Both furviving him, and living together. (d) One fays, this Myrto was Aristides's (d) Ibid. Daughter; another his Grand-daughter; and another, his Grandfon's Daughter. Whatfoever fhe was; if fhe outliv'd her Husband, according to the Letters, pray where was her Ladyship at the time of his fuffering? (e) Xanthippe, like a loving (e) Plato Wife, attended him in the Prison; but Apolog. the other ne'er came near him. 'Tis a mistake, fure, that has past upon the world, that Xanthippe was the Scold: it should seem, that Myrto had the better title

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title to that honourable name. But what shall we fay to Hieronymus, who brings you the very Statute, that gave allowance of two Wives at once ? Panætius, you see, believed it not: and why may not a Statute be forged, as eafily as these Epiftles ? If there was fuch an Act, there (a) appears no great wildom in it. It is certain, there is near an equality in the births of Males and Females. So that if fome Men had two Wives for their share, others must go without : and what remedy would that be against the scarcity of People ? Belides that by fuch a Law the Rich only would be accommodated, who were able to maintain a couple : the poorer fort, who are always the most fruitful, would be in worfe circumstances than before. And without doubt, a very hed (b) ftrong interest would have been made (f) A. Gel against the passing of fuch a Bill; (f) as has, li. I. we know what the Roman Matrons did, when Papirius Prætextatus made a like ftory to his Mother. 'Tis very odd too, that no body but Hieronymus should ever (a) hear of this Statute; and He too a fuspected Witnefs, becaufe he brings it to ferve a turn, and to help at a hard pinch. But certainly fuch a Political Occurrence, had it been true, could never have lain hid from the whole tribe of Hiftorians. It had

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had very well deferved not only a mention, but a remark. But how could it poffibly efcape the fancy and fpleen of all many and the Comædians of that Age ? how could they mils to pleafant an argument of jeft and ridicule ? Those that are acquainted with the condition of those times, will look upon this as next to a Demonstration. But let us grant, if you will, half a dozen Wives to Socrates ; yet nevertheless our Epistles will be ftill in the mire. For here our Sophift makes the two Women live amicably together : which is pretty hard to believe: for (as (g) those that make them (g) Ari-Two, tell the flory of them) while their floxenus a-Husband was alive, they were perpetually dorer, fighting. But, which is worfe yet, there Serm. xij. are other Letters in the bundle, that plainly suppose Socrates to have had but one Wife. (b) He himfelf, writing to some (b) Ep.iv. body, tells him this domeftic news, That Xanthippe and the Children are well : but fays not a word of my Lady Myrto. (i) Xenophon fends a Letter top full of @ Ep.xxi. kindness and commendation to Xanthippe and the Little ones; but it was very uncivil in him, to take no notice of the other; fince, according to the flory, fhe brought her Husband the more Children. Nay, if we allow this Letter of Xenophon's to be genuine, he play'd a falfe and dirty

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dirty trick, much against his character. For at the date of this Epistle, if we be-(k)Ep.xxii. lieve the very next (k) to it, he was writing Socrates's Memoirs. So that while he here in his Letter wheedles the poor Woman, and makes her little Prefents. and commends her for her love to her Husband, and for many good qualities; (1) Xenoph. in his Book (1) he traduces her to that Conviv. prefent Age, and to all Posterity, for the p. 876. most curst and devilish Shrew, that ever was or ever would be. Nay, which makes it the bafer, he was the only Man that faid this of her; for neither Plato nor any of the old Socratics writ a word about her (m) Lib.v. Scolding. Which made (m) Athenaus p. 219. fuspect it was a Calumny : especially fince Aristophanes and his Brethren of the Stage, in all their Raillery and Satyr upon Socrates, never once twitted him about his Wife. Well, let that be as it will : but what shall we fay to Xenophon's double

dealing ? For my part, rather than I'll harbour fuch a thought of that great Man, I'll quit a whole Cart-load of fuch Letters as these.

XIV. Xenophon, in the xv Letter, tells this ftory of Plato, to whom he bore a grudge; That he fhould fay, None of his Writings were to be afcribed to himfelf, but to Socrates young and handfom; Inol under Evay moinua adre

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adris, Zampares pierlos vie i, radis dra. Now, this fentence is taken out of Plato's Second Epiftle to Dionyfius the Younger : Oid ' 's off yeapped IIA two & is in the Younger : Oid ''s off yeapped IIA two & is in the Younger : is a '' ta' '' vor degomera Zampares 'Gr, nadis i, vie gegevoros. Here's a blunder with a witnels, from the Sophift's ignorance in Chronology. For his forged Letter of Xenophon bears date immediately after Socrates's death : but the true one of Plato, which Xenophon here alludes to, is recenter by a vaft while. For Dionyfus came but to the Crown Olymp. CIII, I. which is xxxII years after the Tryal of Socrates.

I must observe one thing more, that by no means should be omitted. There were formerly more Epiftles of Xenophon (o) Serm. extant, than appear in this Collection. 81. A large fragment is cited in (0) Stobæus, 120, 123. out of his Letter to Crito; (p) two frag- (q) Serm. ments out of a Letter to Sotira; (q) and (r) *Epos' two more out of one to Lamprocles : none weaverof which are found here in Allatius's Parcel. 9, 3 Theodoret produces a passage out of a Let- Staims Ziter of his to Æschines ; wherein he jerks xuling Plato (r) for his Ambition and Voluptuouf- vaseds anefs; to gratifie which, he went to Sicily, to mea. METPS Pg. Dionyfius's Court. (s) Eusebius has this (s) Prep. Evang. xiv. passage and more out of the same Epistle : 12. and the whole is extant in (t) Stobæus: What (t) Serm. fhall 78.

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shall we fay ? that the true Letters of Xenophon were extant in those days ? or that those too were a Cheat, and belong'd to the fame Volume whence these of Allatius were taken ? And fo, as I observ'd before, they will be older than Libanius's: I am afraid it will be thought time. ill manners to question the judgment of Eusebius and Theodoret. But we know, (u) See (11) they have made other mistakes of a Differt. uplike nature : and the very Letter which, on fo. Mathey cite, betrays it felf to be a counter-i feit. Xenophon, we see, reproaches Plato, in a Letter to Æschines. If this were true, it was a most rude affront to the, Perfon he writ to, whole friendship he courts fo much in the reft of his Letter. For Æschines himself was guilty of the very fame fault, and is wounded through Plato's fide. 'Tis well known, that He too, as well as Plato and Aristippus and others, made a Voyage to Sicily, and (m) Lacrt. flruck in with Dionyfus; (w) and that purely for Money and the Table. (x) Luin Æsch. cian fays, He was Parafite to the Tyrant; Plut. de Adulat. and (y) another tells us, he liked his Enter-(x) In Patainment fo well, that he did not ftir from rafito. (1) Poly-, him, till he was deposed. I would ask any Man now, if he can still believe it a genuine Laert. Letter; let him have what veneration he can for the Learning of Eulebius.

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In the beginning of this Discourse, I have faid, That I heard of none, that, fince the first publication of these Letters, called them into question. But I was shewn to day (after mine was in the Prefs) in Bithop Pearson's Vindicia Epp. Sancti Ignatii, (?) Par.II. a (z) Digression made on purpose against P. 12, 13. Socrates's Epiftles. I must confeis, with fome shame, I had either never read that Chapter, or utterly forgot it. But I am glad now to find that imcomparable Man both to think it worth going out of his way to difcover this Imposture, and to confirm me in my judgment by the acceffion of his great Authority. There is nothing there difagreeing with what I had faid ; but that his Lordship allows the Epistle to Æschines, cited by Eusebius, to be genuine : which I had endeavoured to convict of a forgery. I referr it to those that please to read both ; whether they think I have just reason to change my opinion : efpecially when I shall tell them, That not Æschines only, but even Xenophon himself made a Visit to Dionyfus. I have * Athenœus for my Autho- * Lib. x. rity, a Witness beyond all exception. P. 487. Ξενορών γεν δ. Γρύλλε παρά Διονυσία, &c. Xenophon (fays he) the Son of Gryllus, when at Dionyfius the Sicilian's Table the Cup-bearer forced the company to drink; Pray,

II2

Pray, fays he, Dionyfius (fpeaking aloud to the Tyrant,) if your Butler forces Wine upon us against our wills, why may not your Cook as well compell us to eat ? So that if we suppose the Letter genuine, the absurdity will double it felf; both Parties being guilty of the very same thing, that is charged upon Plato.

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EURIPIDES'S EPISTLES.

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IS a bold and dangerous venture, to attack Euripides's Letters; fince a very Learned Greek Professor has to paffionately efpouled them ; that he declares (a) Perfri- it to be (a) great Impudence and want of all the frontis Judgment to question the Truth of them. I do not care to meddle with Controversie imminuti. Eurip. Eupon fuch high Wagers as those : but if dit. Cantab. par.ii. I may have leave to give my opinion, without flaking fuch valuable things as P. 523. Modefty and good Senfe upon it, I am very ready to fpeak my mind candidly and freely.

I. There are only five Epifiles now extant, afcribed to *Euripides* : but without doubt there were formerly more of them ;

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them; as we have feen just before, that we have not now the whole Sett of Xenophon's Letters. Neither can we suppose a Sophist of fo barren an Invention, as to have his Fancy quite crampt and jaded with poor Five. We have here a peculiar happines, which we wanted in the reft; to know whom we are obliged to for the great bleffing of these Epistles. Apollonides, that writ a Treatile The nare levo mens Isopias, 5 About falified History, fays, one (b) Sa- (b) Eagli birius Pollo forged them, the fame Man aG Tione that counterfeited the Letters of Aratus, Nev. This we are told by the Writer of Aratus's Life, no unlearned Author : who does not contradict him about these of Euripides ; but for Aratus's, he fays, that, bating this Apollonides, every body elfe believed them to be genuine. I cannot pais any judgment of what I never faw: for Aratus's Letters are not now to be had: but if they were no better than these of our Tragedian, I fhould, in fpite of the common vogue, be of Apollonides's mind; and I wish that Book of his were now extant. One may know, by the manner of the Name, that this Sabirius Pollo was a Roman : but I do not find fuch a Family as the Sabirii, nor fuch a Sirname as Pollo. What if we read Sabinius, or Sabidius Pollio? Non amo te, Sabidi ; nec possum dicere quare. If

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If that Sabidius in Martial was the forger of our Epiftles; though the Poet could give none, yet I can give a very good reafon, why I do not love him. the

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But the Learned Advocate for the Letters makes feveral Exceptions against the Testimony of Apollonides. As first, That we may fairly inferr from it, that a great many others believed them to be true. Alas! How many more, both Ancients, and Moderns, believed Phalaris's to be true ? If that argument would have done the work, I might have spared this Differtation. But prove, that thefe Letters now extant are the same that were forged by Sabirius. Commend to me an Argument, that, like a Flail, there's no fence against it. Why, had we been told too, that he made Phalaris's Epistles : yet how could we prove, unless fome passages were cited out of them, that they were the fame that we have now? But though I cannot demonstrate that these are Sabirius's; yet I'll demonstrate them by and by to be an Imposture; and I hope then it will be no injustice to lay them at his door. But 'tis an evidence, that the true Epistles of Euripides were once extant; because some body thought it not improper to father false ones upon him. Now, I should think the very contrary; that the

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the Cuckow does not lay her Egg, where the Neft is already full. At leaft, I am refolved I'll never go a book-hunting after the genuine Epiftles of *Phalaris*; though fome body has cheated the World with a parcel of false ones.

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II. It might eafily have happen'd, tho' we suppose the Letters spurious, that in to fmall a number as Five, there could be nothing found to convict them by. But fo well has the Writer managed his Bufinefs; that every one of them has matter enough to their own Detection. The last and principal of them is dated from Macedonia, in answer to some reproaches, that were caft upon him at Athens for his going to Archelaus. As for what you write from Athens; fays he, pray know, that I value no more, we viv Aza Sav & Meral Q. Neger, what Agatho or Melatus now fay ; than I formerly did, what Aristophanes babbled. Here we have the Poet Agatho. (for without doubt he means the Poet, fince he has join'd him with Aristophanes) refiding at Athens, and blaming Euripides for living with Archelaus. Now, could any thing be more unfortunate for our (c) Elian Sabirius Pollo, than the naming of this II, 21. & Man ? For even this Agatho himfelf was XIII, 4. then with Archelaus in (c) Euripides's poph. Schol. company : befides that they were always Aristoph. good Balezz. H 3

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But perhaps fome may fufpect, it was another Agatho a (d) Comic Poet, that was (d) Vita Eurip.p.29. meant in the Letter, and not the famous Agatho the Tragedian. This I find to be the Opinion of the LearnedPerfon abovenamed. But I will make bold to expunge this Comic Agathe out of the Catalogue of Mankind. For he fprung but up, like a Mushroom, out of a rotten passage in Suidas; who, after he has spoken of Agatho the Tragic Poet, has these words ; naspices Somoid's Zampars, Sidaongins : Engoplasdeito jeis ANAJTHTA: which his Interpreters (Wolfius and Portus) thus translate, Fuit & alius Agatho Comædiarum Scriptor. But there's nothing like Fait & alius in the Original; but the fame Agatho is here meant, that was mentioned before. This they might have known from the following words, inopuedeiro j eis Indúrna, be was libelled for his Effeminateness. For

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whom can that belong to, but to Agatho the Tragoedian ; whom (e) Lucian ranks with wollas enteasou noin- Cinyras and Sardanapalus ? Do but read Aristophanes's The mophoriazufæ; and you'll fee him ridiculed upon that fcore for fome pages

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of the fame Poet ; 'Aya Soor (fays he) צדטה דפתותיהה דסוחוזה לאו עמאמומת אוב אבלא-AsTo. Here you fee, it is expressly faid, (f) Agatho the Tragædian was traduced (f)P.133. as Effeminate. It follows prefently in the fame Scholiaft; Ouros jo Aya Dav xaμωδοποιός τέ Σωκράτες διλασκαίλε; where we have the very words of Suidas applied to the Tragoedian : Eros, this fame Agatho was a Comædian, Socrates being his Master : not another, as the Translators of Suidas interpolate the Text. But is it true then, that our fpruce Agatho writ Comedies too? Nothing like it ; though the learned (g) Gregorius Gyraldus affirms it from this (g) Dialog. very passage. Tis a mere oscitation of our de Poet. Scholiast, and of Suidas that gaped after him: the occasion and ground of the ftory being nothing but this. Plato's Convivium was in the Houfe of this Agatho: in the (b) conclusion of which, Socrates is (b) P.336. introduced proving to Agatho and Aristo- Tov Texyo phanes; That it belonged to the Same Man, Tegyadband required the same Parts, to write both w nousdo-Comedy and Tragedy ; and that he that was Toiov i). a skilful Tragædian, was also a Comædian. Hence have our wife Grammarians dress'd up a fine ftory, That Agatho was a Comcedian, and of Socrates's teaching. And now, I hope, I have evidently proved the thing that I proposed ; H 4 to

to the utter difgrace of our admired Epiftles.

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III. Euripides, we have feen, did not value one farthing, what either Agatho or (i) n Mé-(i) Mefatus faid of him. I would gladly 010705. be better acquainted with this fame Me-(atus ; for I never once met with him but here in this Letter. He must be a Brother of the Stage too, by the company he is placed in : But what was the matter? Was he fo hifs'd and exploded, that he durft never fhew his head fince ? I have a fancy, he was of the fame family with (E) Epist. (k) Phalaris's two Fairy Tragædians, Ari-Ixili, & Stolochus and Lyfinus : and that these Let-SCVII. ters too are a kin to those of the Tyrant. But, perhaps, you'll fay, this Mefatus is but a fault in the Copies. It may be fo : and I could help you to another Tragædian of those times, not altogether unlike him; one Melitus, the fame that afterwards accufed Socrates; who was likely enough to hate Euripides, that was the Philoiopher's friend. Or I could invent fome other medicine for the place : but let those look to that, that believe the Epiftles true, or think them worth the curing.

The very Learned Defender of the Epiftles, one of a fingular Industry and a most diffuse Reading, has proposed fome

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fome Objections against the Letters, communicated to him by a private Hand. That private Person, at the request of the Editor, imparted his opinion to him in a very short Letter: to which he had no Answer returned; till he found it, with some surprize, brought upon the stage in (1) print; and his Reasons routed and (1) Eurip. triumph'd. But let us see if we can rally p.27, &them again: perhaps they may keep their 523. ground in a second Engagement.

IV. Our friend Sabirius Pollo, to make the whole Work throughout worthy of himfelf, has directed this fame Letter to Cephifophon, who was Euripides's Actor for his Plays. For he had often heard of Cephifophon; and fo he would not let him pass without a share in his Epistles. But he should have minded Time and History. a little better, if he hoped to put himfelf upon Us for the Author he mimic's. 'Tis true, Cephifophon and our Poet were once mighty dear acquaintance : but there fell out a foul accident, that broke off the friendship. For Euripides caught him Acting for him, not upon the Stage, but in private with his Wife. Which bufinefs taking wind abroad, and making a perpetual Jeft, was one of the main reasons why he left Athens and went to Macedonia. And is it likely, after all this, that our Poet

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Poet should write a Letter to him, as foon as he got thither ? that he should use him as his most intimate Friend, nearer to him than his own Children ? I know, there are some so fond of our Epistles. that they value all this as nothing. Cephifophon is to much in their Books; that whatfoever is faid against him, must be calumny and detraction. Give me an Advocate, that will flick close and hang upon a Caufe. By being their Editor, he is retain'd for the Letters ; and therefore he must not defert his Client. But why shall no Testimony be allowed, that (m)P.167, touches Cephifophon? Are not (m) Aristephanes and his Commentator, and Sui-(n) In Vi- das and (n) Thomas Magister all lawful ta Eurip. and good Evidence ? And is there one fingle Witneis against them in his behalf ? Not a Writer is now extant, that mentions his name, but what tells the ftory of him : and if we must not believe them; we shall want new Evidence to prove, there ever was fuch a Man. V. In a Difquisition of this nature, an inconfifiency in Time and Place is an ar-

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gument that reaches every body. All will cry out, that Phalaris, &c. are fpurious, when they fee fuch breaches upon Chronology. But I must profes, I should as fully have believed them so; HANDSD though

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though the Writers had escaped all miftakes of that kind. For as they were commonly men of small endowments, that affected to make these Forgeries; a great Man difdaining fo bafe and ignoble a work: fo they did their business accordingly : and expressed rather themselves, than those they acted. For they knew not how to observe Decorum, in a Quality fo different from their own : like the filly Player, that would reprefent Hercules; tall indeed, but flender, without bulk and fubftance. Let us see the conduct of this Author : In the first Letter, Archelaus fends Euripides some Money; and our Poet, as if his Profession were like a Monastic Vow of Poverty, utterly refuses it. And why, forfooth, does he refuse it ? Why, it was too great a Summ for his condition. Yes, to be fure ; when a Sophift makes a Prefent, the greatest Summ costs no more than the least. But it was difficult to be kept, and the fingers of Thieves would itch at it. Alas for him; with the expence of one Bag, out of many, he might have provided a Strong Box, and new Doors and Locks to his Houfe. But why could he not accept a Little of it ? Even (o) So- (o) Laercrates himfelf and Xenecrates took a mo- tius, in So dicum out of Prefents, and return'd Xmoos the reft again. And is a Poet more felfdenying,

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denying, than the most mortified of the Philosophers ? . But the best of all, is, That Clito the King's chief Minister threatned to be angry with him, if he refused it. What, could Clito expect before-hand, that the Present would be refused ? The most fagacious States-man, fure, that ever Monarch was bleft with. Alexander could not fore-fee fuch a thing ; but was mightily furprized, when Xenocrates would not receive fome Money that he fent him: " (p) What, fays he, has Xenocrates no " Friends to give it to, if he need it not " himfelf ? " As for our Poet, he had Friends, I assure you; but all of his own kidney, men of Contentment, that would not finger a penny of it, to autaques huir TE H Tois gitous magor. What would one give to purchase a Sett of such acquaintance ? And yet, I know not how, in the Fifth Letter, their appetites were come to 'em; For in that, Euripides himfelf, from Archelaus's Court, fhared fome Prefents among them; and we hear not one word, but that all was well taken.

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(p) Plut. Apoph.

> VI. The reft of this Letter is employed in begging pardon (q) for the two Sons of a Pellæan old fellow, who had done fomething to deferve Imprifonment. And the Third and Fourth are Common Places of Thanks for granting this requeft. Now, befides that

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that the whole Business has the Air and Vifage of Sophiftry ; for this fame is a mighty Topic too in Phalaris's Epiftles : 'tis a plain violation of good Senfe, to petition for a Man without telling his Name : as if Pella the royal City had no Old Man in it but one. How can fuch an Address be real ? But to this they give a double Anfwer; That a Sophist, if this was one, could not be at a loss for a Name : he might eafly have put one here; as hereafter he names Amphias, Lapretes and others. But the point is not, what he might have done, but what he has done. He might have named fome other Poet at Athens, and not Agatho that was then in Macedonia. All those mi-Itakes and blunders of Phalaris and the reft might eafily have been avoided, had the Writers had more Hiftory and Diferetion. (r) But he had writ a Letter (r) There before this about the same business; and envirase there we must suppose he had mention'd his rawin our. name. This indeed would be fomething, if it would carry water. But though the Sophift has told you fo; do not rashly believe him. For it is plain, that pretended Letter must have been fent to Archelaus, before this vaft Prefent came from him. Why then did not the fame Mellenger that brought the Money, bring the

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the Grant too of his Petition ? Would the King, that did him this mighty Honour and Kindnefs, deny him at the fame time that fmall and juft Requeft ? For the crime of those Prisoners was farely no hainous bufinefs. Had it been a defign to affaffinate the King, he would never have interceded for them. The Charge against them was a venial fault : or were it the blackest accusation, their Innocence at least would clear them : for our Poet if the fills us, (s) They had done no body advances.

VII. The Second Epiftle is to Sophocles, whom he makes to be fhipwrack'd at the Island Chios ; the Vessel and Goods being loft, but all the Men faved. That Sophocles (t) Athen. was at Chios, we are informed by (t) Ion. XIII, 603. Chius the Tragoedian ; who relates a long conversation of his there. If our Author here means the fame Voyage, as probably he does; he is convicted of a cheat. For (a) Ibid. (t) then Sophocles was Commander of a Fleet with Pericles in the Samian War; 1, 75. and went to Chios, and thence to Lesbos, for auxiliary Forces. But our Mock-Euripides never thinks of his publick Employment; but advises him to return home at his leifure ; as if it had been a Voyage for Diversion. Tes, fays his Advocate; but why might he not be at Chios another

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another time, though no body speak of it, about private Affairs ? . Yes; why not, indeed ? For Sophocles was fo (w) cour- (w) Ion teous and good-natur'd a Man, that, to chius, ibs do our Letter-monger a kindnefs, he would Ranis. have gone to every Island in the Archipelago. But 'tis hard though, that a good Ship must be lost, and our Poet fivim for't, to oblige the little Sophift. For I fear the Veffel was caft away, purely to bring in (x) the great loss of Sophocles's Plays. (x)'H del Alas! alas! Could he not go over the To Seawater, but he must needs take his Plays wala out with him? And must Euripides, of all men, lament the lofs of them; whole own Plays must, probably, have truckled to them at the next Feast of Bacchus ? Must Euripides, his Rival, his Antagonist, tell him, (y) That his Orders about family (y) Ta affairs were executed : as if He had been with ver out employ'd by him, as Steward of his 72. Houfhold ? Is : 11d my

VIII. The Fifth Letter is a long Apology for his going to Macedonia. " Can they " think, fays he, that I came hither for " love of Money ? I should have come then. " when I was younger; and not now, " to lay (z) my bones in a barbarous (z)"Iva is " Countrey, and make Archelaus richer BapBapa " by my Death." I observed it, as no vouer. finall mark of a Sophift, That our Author

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foretells, he was to die in Macedonia where, we know, he was worried to death by a pack of Dogs. But what wonder, fay they, if an Old Man of Seventy predict bis own death? I do not question, but our Poet might prefage himfelf to be Mortal. But 'twas an odd guess to hit upon the time and place, when and where he was to die. For, what ground was there to be fo positive? The Letter, we fee, carries date just after his arrival at Court ? He had, as yet, had very fhort trial, whether all things would continue to his liking. And we have no reason to suppose, that he came thither for good and all ; never to see Athens again. Might he not, by fome accident, or fupplanted by fome rival, lofe the King's favour? Or, was he fure His life would last as long as his own ? Twas a violent death, and not mere Age and Crazinefs, that took our Poet away at laft : and he knew Sophocles to be then alive and hearty and making of Plays still; that was Fourteen years older than himfelf. In these circumfances to be fo politive about his dying there, was a Prophecy as bold as any of the Pythian Oracle. But, fay they, he gives a hint too, that Archelaus might be deposed : which a Sophist would not say, because it never came to pass. That was true and

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and came to pass every day, that he might be depofed : and he does not fuggeft, that it actually would be fo ; for her exprelly fays, (a) God would always stand (a) Hapsby the King, and Support him. But indeed, & Stole, wi as they interpret a paffage there ; it looks show) vaas if he had foreboded real Mitchief; Out tomy. מיומסיו, לדו כוצצומן ל אמור אב ביג ביטאטמידעי בעצבyearar, are Deis epso Q. Non. Which laft words they translate, ubi jam destitutus fueris & abdicatus, "when you are de-"ferted and deposed." But with all due fubmission, I will assume the freedom of changing the version. For dre Sels and . 93 (1) oped & belong to the word raye is, and not to Archelaus : and the diffinction is to be put thus; on civelay & raye is, en avopartar everyeolar averseis, opso & idr. Tempus ad exercendam benignitatem conceffum; "You will not grieve, that the "time is gone paft recalling, which was " granted you by God to do good to "Mankind in." This, I fuppole, is now clear enough ; and Archelaus is in no danger of being deposed by this fentence. But let us examine our Author's next words; (b) To make Archelaus richer by (b), "Ire. my death. A very good Thought indeed, "Apyshaw and worthy of Euripides. But pray what rarahimicould the King get by his death ? Would Her Xpnthe Poet be compell'd to make him his Heir ;

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Heir ; as fome were forced by the Roman Emperors ? Or, would the King feize upon his Eftate, and defraud the true Inaquil (heritor ? . If the Poet had fuch fulpicions. as these, he would never have gone to "Con him. But though he had left all to him at his death ; what would the King have been richer for him ?? For furely Euripides, having fetled affairs at home, carried no great Stock with him to Macedonia ; unless he thought Archelaus would make him pay for his Board. He might well expect to be maintain'd by the King's (d) Ep. v. Liberality; (c) as he found it in the Event. The King therefore, were he his fole Heir, would only have received again, what himfelf had given before. Nay, even a great part of that had been loft beyond recovery. For our Poet, by the very first Messenger, had packt more away to Athens, that Archelaus had given him, than all that he carried with him could amount to; perhaps, than all he was worth before.

IX. But he has more still to fay to those, that blamed him for leaving Athens. in It " Riches (fays he) could draw me to (d) Tow Macedonia; why did I refuse (d) these CUTOYTETON CE TA870V. " very fame Riches; when I was (e) young, (e) NEOL " or middle-aged; and while my Mother TE Ny MEDDI " was alive ; for whole fake alone, if The nalzidy. at - Welling

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" at all, I should have defired to be rich?" He alludes here to the First Letter, (and perhaps to others now loft,) where he refuses an ample Summ of 215T X Money fent him by Archelaus. Alas, poor Sophift ! 'twas ill luck he took none of the Money, to Fee his Advocates luftily : for this is like to be a hard brush. For how could the Poet, while young, or middleaged, refuse Presents from Archelaus ? fince, (f) Diod. according (f) to most Chronologers, he Sicul. G alii apud was about Seventy ; and, by the most fa- Athen. 1.v. vourable account, above Sixty; when Ar- P. 217. chelaus came to the Crown.

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X. But what a dutiful Child had Mother Clito the Herb-woman ? For her fake alone, her Son Euripides could with to be Rich ; to buy her Oil to her Sallads. But what had the Old Gentleman the Father done, that he wifnes nothing for His fake ? And how had his (g) three Sons offended him, (g) Snidas, that They have no fhare in his good fter, &c. Tho. Magiwifnes ? 'Tis a fine piece of conduct, that our Sophift has fhewn. He had read fomething of our Poet's Mother; for the was famous in old Comedy for her Lettuce and Cabbage : but having heard nothing of his Sons; he reprefents him through all his Letters, as if he had no Children. As here, the only motive to defire Wealth, is his care of the Old Woman : and when 12 the BOOD?

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fhe is fuppofed to be dead, all his concern is only for his Friends. In the Firft Let. (b) 'Huiv ter, (b) He and his Friends are fuch contented men, that they refufe the royal Gift. Not a word of the three young Sparks; who, 'tis hard to think, were to felf denying. In the Fifth, he keeps none of the King's Prefents by him, but fends all away to Athens, to be fhared among (i) Tois his (i) Friends and Companions. How,

to be forgot thus by their own Father ?
If it be fulpected, in favour of the Letters, that the Sons might be all dead before;
I can foon put a ftop to that, from a good Evidence, Ariftophanes; who, in a Play
(k) Bá- made (k) the very Year of our Poet's leggel, P. death, mentions the Sons as then alive.
184. Edit. death, mentions the Sons as then alive.
Bafil. XI. The Romans may brag as much as

Bafil. they please of Mecanas and others : but of all Patrons of Learning, Archelaus of Macedonia fhall have My commendations. Within two or three days after Euripides's arrival, (1) Ep. v. he makes him a Prefent of (1) Forty Talents. Which was a greater Summ of Money than our Poet could ever have raifed before; though all that he had fhould have been fold four times over. The Great (m) Plut. Themistocles (m) was not worth Three Themift. Talents, before he meddled with Public (n) Terent. Affairs : and (n) Two Talents was thought Heaut. a good

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a good Portion for a fubstantial Man's Daughter. Alexander the Great, when he was Lord of the World, fent Xenocrates the Philosopher a Present of Thirty Talents, or, as others fay, Fifty ; which (o) Cicero calls a vaft Summ, especially (o) Cicero, for those times. But Alexander's natural Pecunia Munificence was fiimulated and exalted to temporibus that extraordinary Act of Bounty, out of illis, Athea peak (p) he had to Aristotle. How ge- tim, maxinerous then, nay, how profuse was Ar. ma. chelaus; that out of his little and scanty in Arist. Revenue could give as much, as his great Succeffor in the midst of the Persian Treafures ? But all this is spoil'd again ; when we confider, 'tis a Sophift's Prefent : who is liberal, indeed, of his Paper Notes, but never makes folid Payment.

And now, I fuppofe, it will be thought no great matter, whether Sabirius Pollo, as Apollonides affirms, or any other unknown Sophift, have the Honour of the Epiftles. I will take my leave of Him and Them; after I have done the fame kindness to Apollonides, that I did to Sabirius. For as I read the name of the one, Eabland Monthian, instead of EablerGr Πόλλων: fo, for $^{2}Aπόλλωνίδης δ Κηρεύς,$ I dare make bold to fubstitute 'Amonnaviding & Nizaeuis. The former was never heard of but here. This latter is men-13 tiond Did K.

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tion'd by Laertius, Harpocration and others. He writ feveral Books, and dedi-(q) Laerr. cated one of them (q) to Tiberius. The in Timone. time therefore agrees exactly with this emendation; for living in that Emperor's days, he might well cite a Roman Author Sabidius Pollio. But to take away all manner of fcruple ; this very Book About idit, Mahe Falfified Hiftory is afcribed to Apollonides (r) v. Ka- Nicenus by (r) Ammonius; ATTORAQUIDUS, Joinstorefays he, & Nixaeis en Ta Tpito all rate-De Differ. Vocat. Jeug never ; just as the Writer of Aratus's Life fays ; Anorrans & Knows & Knows tista wer rate levo mens Isoplas. trists in a little pitchis in the little again ; ' st later

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Æ SOP'S FABLES.

Could eafily go on, and difcover to you many more Impostures of this kind, The Epistles of Anacharsis, Heraclitus, Democritus, Hippocrates, Diogenes, Crates, and others. But perhaps I may be exhorted hereaster to put this Differtation into Latin, with large Additions: till which time I will adjourn the further Discourse upon those several Authors; and proceed now to the last thing proposed, The Fables of Æsop.

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And here I am glad to find a good part of the Work done ready to my hand. For Monfieur Bacher S. de Meziriac, has writ The Life of Elop, in French : which Book, though I could never meet with it, I can guels from the great Learning of the Author, known to me by his other Works, to have in a manner exhausted the Subject. Vavasor too, De Ludiera Dictione, afcribes the prefent Fables to Maximus Planades, and not to Æfop himfelf. See alfo a great deal upon this Head in the late Hifto-• rical Dictionary of Mr. Baile. All which make me look upon Sir W. T.'s mighty Commendation of the Æsopean Fables now extant, which is the occasion of this Treatife, to be an unhappy Paradox; neither worthy of the great Author, nor agreeable to the reft of his excellent Book. For if I do not much deceive my felf, I shall foon make it appear, That of all the Compositions of the Æ fopic Fables, these that we have now left us, are both the Last and the Worst. Though I do not intend a fet Difcourfe ; but only a few loofe things, that I fanfie may have escaped the Observation of Others.

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I. 'Tis very uncertain, if Æ fop himfelf left any Fables behind him in writing : the Old Man in (s) Aristophanes learn'd (s) In Veshis pis, p.357.

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(t) In Avi-There's another (t) passage in the same bus, p.387 Poet, Oud? Alownov mematunas; which (1) Mari- (11) Suidas, and from him Erasmus, Sca-Ed4. liger, &c. affirm to be used proverbially; Tou have not read fo much as Ælop, (spoken of Ideots and Illiterates.) From whence one might conclude, that A fop wrote his own Fables, which were in every bodies. hands. But it plainly appears from the Poet himself, that it is not a Proverbial Saying : For when One had faid, He never heard before, that Birds were older than the Earth: the Other tells him, He is unlearned, and unacquainted with Ælop; who faid, " That the Lark was the " first of Things ; and she, when her " Father died (after he had laid five days unburied, because the Earth was "not yet in being) at last buried him in her own Head." Now, what is there here like a Proverb ? But pray take notice, that this Fable is not extant in our present Collection; a good testimony, that Ours are not of the Phrygian's own Compoling. or resident with alsi the Old Man in (s), Instantiners harring (s) h. 201

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I will mention another place of our Poet ; that I may, on this occasion, correct a groß Error of the Scholiaft. 'Tis extant in Vespis, p. 330. Strad vellen

wook] able : and that wich no great; Oi) אליאטו איש שו שו איני איניי, oi & AIDWITE TI YE-

Where he interprets Alodans yErolow; of one Afop a ridiculous Actor of Tragedy. But our Scholiast himself is more ridiculous: if it was He that writ this; and not fome trifler, that foifted it in among the other's Annotations. For there was no Æ fop a Greek Actor in the days of Aristophanes : he mistakes him for the famous Æ fop in Cicero's time, an Actor of Tragedy on the Roman Stage; and far from being ridiculous :

Que gravis Asopus, que dostus Roscius egit.

But the Æ fop meant by our Poet is the Phrygian himfelf, whole Fables were called Jests, Ieroia : fo in the other passage, already cited, Alowning' yeroiov. Helychius, Αίσωπε γελοία πετως έλεγον τές Alown's puides. (w) Dion Chryfostom, speak. (w) Orat. ing of our Æ fop, Hueixorto autor, fays he, 631. Boursvou 67 Tal JEROis is Tois mutous. Avienus, in his Preface ; Afopus, responso Delphici. Apollinis monitus, RIDICULA orfus eft.

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II. The

II. The first, that we know of, who (x) Plate effayed to put the *Æfopic Fables* into in Phadome. Verse, was (x) Socrates the Philosopher, Plutarch. Laertius seems to hint, that he did but Poet. Laert. in Socrat. cefs; the beginning of it was this:

Αἰσωπός ποι έλεξε Κορίν Γιον αςυ νέμισος, Μη πρίνειν αρετίω λαοδίκω σορίη.

Tis observable again, that Socrates does not fay, he made use of a Book of Fables: but, I wrote, fays he, wn πιστρίω, those that I knew, and that I could first call to mind. And this Fable too does not appear in our present Collection; if we may gather so much, from his naming the Corinthians.

(y) Laert. in Demet.

III. After Socrates's time, (y) Demetrius Phalereus made Adywy Adowneiws Zova ywydd, Collections of Æfopean Fables : which, perhaps, were the first in their kind, committed to writing ; I mean, in form of a Book. These feem to have been in Profe: and some, perhaps, may imagine, that they are the same that are now extant. I wish they were; for then they would have been well writ, with some Genius and Spirit. But I shall demonstrate Ours to be of a Modern Date; and the Composition it felf speaks too loud, that it is not Demetrius's.

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IV. After him, there was fome body, whole name is now loft, that made a new Edition of the Fables in Elegiac Verle; I find no mention of them, but in Suidas; who cites them often under the name of MODON, or MUDING. I will fet down a few Fragments of them; both to fhew that they belong to the *Æfopic Fables*, which has not yet been observed, that I know of; and to enable you to judge, whether, if we could change our modern Collection for these, we should not get by the bargain.

(z) Τένεκα των ίδιω έτις όπωπε δύω.

(z) Suidan in ∆ýn.

This belongs to the Fable about the Two Bags that every Man carries; one before, where he puts other men's faults; another behind him, where he puts his own. This is mention'd by Catullus, Horace, Phædrus, Galen, Themistius, Stobæus, &c. and it is a Blot upon our Modern Sett, that there it is wanting.

(a) Αλπειναϊς έλαταϊς έρισεν βάτος ή μέν έειπε (a) Id. in Καί ναῦς μζ νηςς (b) τεμινομένη τελέειν. (b) vulgo And, τεμνομένίω.

Αιπεινίο ελατίω έρις ώρ ορεν αισυλα φαλαγ.

And, Suns (c) Oude of sol? and av ade magdalis, Evena (c) Id. in EMARIN

And,

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, yhod son And, to sonathe [annolis: (d) Id. (d) Пипри менте линогоги, атад химаедити Axindus.

Some of them, it feems, were all Hexameters :

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(*) Id. - (*) "O.I suger av 6777 melpan Erop. & "Oseanberla Te vara iz alnuna zuia neadn. stoph. P. 220.

'Tis an easie matter to find what Fables these pieces relate to; and I think they are all extant in the prefent Collection.

V. This, you fee by this Specimen, was no contemptible Author : and after him (e) suidas came one Babrius, that (e) gave a new in Balenos. Turn of the Fables into Choliambics. No Estimat (=) body, that I know of, mention him; but Suidas, Avienus, and Jo. Tzetzes. There's one Gabrias, indeed, yet extant, that has comprized each Fable in four forry lambics. But our Babrius is a Writer of another Size and Quality; and were his Book now extant, it might juftly be opposed, if not preferred, to the Latin of Phædrus. There's a whole Fable of his yet preferved at the end of Gabrias, · anothing. of the Swallow and the Nightingale. Sui--superver das brings many Citations out of him ; 10:00 all which fhew him an excellent Poet : as this of the Sick Lion. (f) Suidas - (f) oid TIS VEOW

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Φρίζας 🗒 χαίτίω (b) έκθορε φωλάδ G. κοίλης : (b) Suidas in "Ex. Sope. And a great many others.

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VI. I need not mention the Latin Writers of the Æsopean Fables; Phædrus, (b) Julius Titianus, and Avienus; the two (b) Aufofirst in Iambic, the last in Elegiac : but nins, Ep. I shall proceed to examine those Greek ones xvi. now extant, that assume the name of Æfop himself. There are two parcels of the prefent Fables ; the one, which are the more ancient, cxxxvi in number, were first publisht out of the Heidelberg Library, by Neveletus, A. D. MDCX. The Editor himfelf well observed ; That they were fally ascribed to Afop, because they (i) mention holy Monks. To which (i) DIAG-I will add another remark; That there is Prices x21 a fentence out of Job, (k) Tuperol 30 na- rageis, Ασμεν οι πανίες, γυμνοί έν απελευσομείτα : Fab. 152. Naked we all came, and naked shall we re- (k) See Fab. 288. turn. But because these two passages are Job i. 21. in the Epimythion, and belong not to the Fable it felf; they may justly be supposed to be Additions only, and Interpolations of the true Book. 1 shall therefore give fome better Reasons, to prove they are a recent Work. That they cannot be Æ (op's own, the CLXXXI Fable is a demonstrative proof. briew

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proof. For that is a flory of Demades the Rhetor, who lived above cc years after our Phrygian's time. The CXCIII is, about Momus's Carping at the Works of the Gods. There he finds this fault in the Bull; That his Eyes were not placed in his Horns, so as he might see where he pusht. (1) In Ni- But (1) Lucian (ipeaking of the fame Fable) has it thus ; That his Horns were not placed right before his Eyes. And (m) Aristotle has it a third way; That his (m) De Part. A-Horns were not placed about his Shoulders, nim. 1. 111. where he might make the strongest push; but in the tenderest part, his Head. Again, Momus blames this in the Man; That his Preves did not hang on the out-fide of him, so as his Thoughts might be seen : but in (n) In Her- (n) Lucian, the fault is; That he had not a Window in his Breast. I think it probable from hence, that A fop did not write a Book of his Fables : for then there would not have been fuch a difference in the telling. Or, at least, if these that are now extant were Æ [op's ; I should guess from this specimen, that Lucian had the better on't, and beat him at his own play.

VII. But that they are recenter than even Babrius, who is himfelf one of the latest Age of good Writers, I discovered by this means. I observed in 'em several passages, that were not of a piece with

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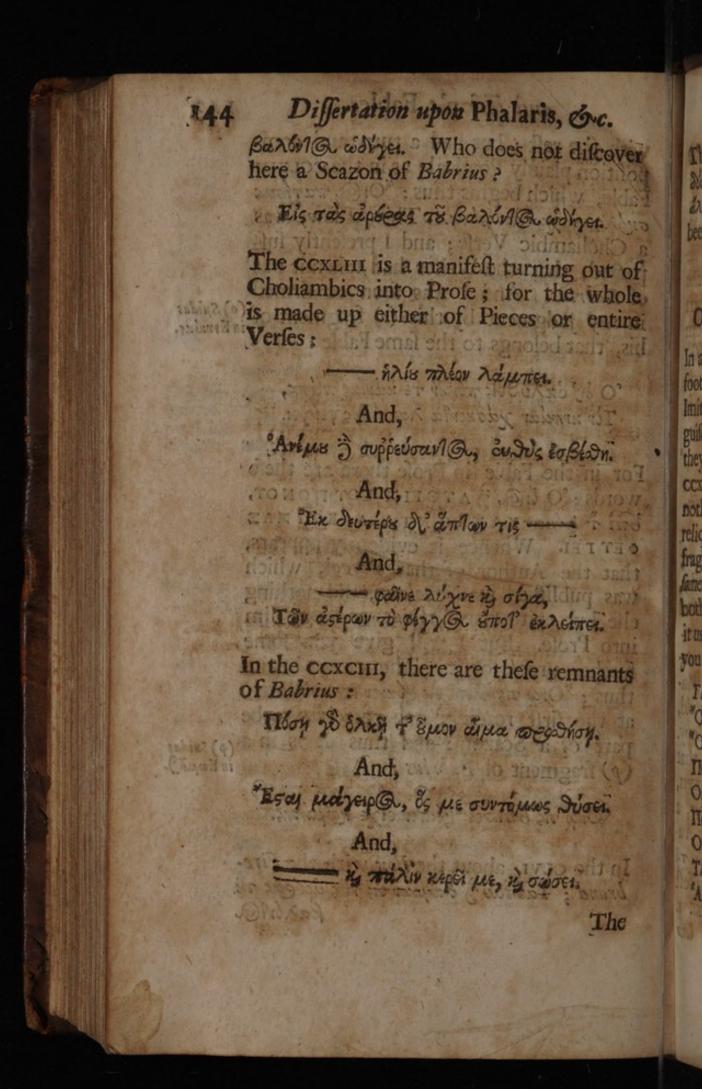
with the reft : but had a turn and composition plainly Poetical: as in the CCLXIII Fable, which begins thus; "Or a mathoras orghoma 2000s issues. This, I faw, was a Choliambic Verse; and I presently sufpected, that the Writer had taken it out of Babrius. And I was soon confirmed in my judgment by this (o) fragment of (o) Suidas his, that belongs to the same Fable :

Ο δι' απλυθείς πόνων τε κάνίας πάσης, Του κυημίαν χάσκονλα λακτίσας φεύγει.

For in the Fable in Profe there are these words; O & ATOEIZ TOT HONOT, GAT & Admon XAZKONTA AAKTIZAZ • ETTEL Whence it evidently appears, that the Author of that Parcel, which was published by Neveletus, did nothing elfe but epitomize Babrius, and put him into Profe. But I will give you fome further proofs of it. The CCLXI begins thus; Orgo TIS GATISELS Edeavor By Which, at the first reading, one perceives to be part of a Scazon : and thus it is in a (p) Suidas (p) fragment of Eabrius :

"Over דוב לדת שביב בלמעטע ביצב אפטעותד אב.

In the CLVI, about the Fox with the Firebrand; Tabtle 3 Salper is ta's apéeas The Barbrie.



The CLXV begins thus; Avig μεσοπολιός δύο ερωμένας είχεν ων ή μέν μία νεάνις, ή 3 άλλη προσβύτις: which I suppose to have been in Babrius thus:

Ανής μεσοπολιός δυ ερωμένας είχεν, "Ων ή μία νεάνις, ή ζαρεσβύτις. Or, "Ων ή μέν ήν ν:

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In all these passages here are most visible footsteps by which we may trace our Imitator: but generally he has so difguised the Fables, that no body can find they ever belong'd to Babrius. In the ccxrv, about the Priests of Cybele, there's nothing but a short dry Story, and no reliques of a Verse. But there's a noble fragment of Babrius belonging to the same Fable, which I will here set down, both to correct it, (for he that has given it us, (4) has printed it false,) and to show (4) Maral. you how much we have lost:

Γάλλοις άγυξιαις εἰς το κοινον ἐσορά θη "Ον Τις ἐκ εῦμιοιρ Φ., ἀλλὰ δυσδ ἀμιων" "Ος τς φέρη πίωχοῖοι ή, πανδεγοιοι Πείνης ἀκος δίξης τε, ή, κακίω τέχνίω. Οῦτοι ϳ κύκλω πάσαν ἐξ ἐθες κώμίω Περιίοντες ἐλέγοντο τίς γαζ ἀγε οίκων Οῦκ οῖδεν Ατίιν λευκόν, ὡς ἐπηρώθη; Τίς ἐκ ἀπαξχὰς ὅσσερίων τε ή, σίτων Αίνῶ φέρων δίδωσι τυμπάνω Ρείης.

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VIII. Thus I have proved one Half of the Fables: now extant, that carry the name of Æfep, to be above a Thousand Years more recent than He. And the other Half, that were public before Neveletus, will be found to be yet more modern, and the latest of all. That they are not from Æfop's own Hand, we may know from the LXX, Of the Serpent and the Crab-fish: which is taken from a Scolion or Catch, much older than Æfop, that is extant in (?) Lib.xv. (r) Athenaeus, and must be corrected thus: c. 15.

> Ο καγκίνος ώδε έφα, χαλά τ όφιν λαβών Εύθύν χρή έταις ον έμεν, ή μήσκολια φε ονέν.

> > .9118 V

But there's a noble

And there is great reafon to believe, that they were drawn up by Planudes, one of the Later Greeks, that translated JATAN (P) into his native Tongue Ovid's Metamor-. 977. L. IX. phoses, Cato's Distich's, Casar's Commentaries, and Macrobius. For there is no Manufcript any where, above ccc years old, that has the Fables according to that Copy. Befides that there are feveral paffages, that betray a modern Writer; as in the LXXVII, BETALIS, a Bird; and XXXIX, BEVEUGOV, a Beast ; both unknown to all ancient Authors : and in the CXXIX, Bow en Th ragolia, Crying in bis beart, a manifest Hebraistn, in imitation of Eccles. Xi. I. GIT OF

the Æthiopian, is taken almost word for word out of the vi of Apthonius the Rhetorician; who made an Eslay upon some Æsopic Fables, that is yet extant. The iv, as appears from the last sentence of it, is a Paraphrase on the COLXXXIV of Neveletus's Parcet; which Parcel, as I have proved above, are a Traduction of Babrius: and particularly in this very Fable there are southers of his Verses;

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This Collection therefore is more recent than that Other; and coming first abroad with *Æfop's Life*, writ by *Planudes*, 'tis justly believed to be owing to the fame Writer.

IX. That Idiot of a Monk has given us a Book, which he calls *The Life of Æfop*, that, perhaps, cannot be match'd in any Language, for Ignorance and Nonfenfe. He had pick'd up two or three true ftories, That Æfop was Slave to one Xanthus, (s) carried a Burthen of Bread, converfed (*) Europhic with Cræfus, and was put to death at X odoff. Delphi : but the Circumftances of thefe, P.785. and all his other Tales, are pure Invention.

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He makes Xanthus, an ordinary Lydian or Samian, to be a (t) Philosopher : which (0) Zav-30- 6 41word was not heard of in those days, but Aboug G. invented afterwards by Pythagoras. He makes him attended too, like Plato and Aristotle, by a Company of Scholars, whom he calls Eyohasticoi : tho' the word was not yet used in that fense, even in Aristotle's time, 'Twas the (u) King of Æthiopid's Problem to Amasis King of Ægypt, To drink up the Sea : but Planudes makes it a Wager of Xanthus with one of his Scholars. To fay nothing of his Chronological Errors, Mistakes of a Hundred or Two Hundred years : Who can read, with any patience, that filly Discourse between Xanthus and his Man E fop ; not a bit better than our Penny-Merriments, printed at London-Bridge ? X. But of all his injuries to Æfop, that which can least be forgiven him, is, the making fuch a Monster of him for Uglines: an Abuse, that has found credit so universally; that all the modern Painters, fince the time of Planudes, have drawn him in the worft Shapes and Features, that Fancy (w) Suidas could invent. Twas an (w) old Tradition in Air. & among the Greeks, That Æ fop revived AraBievar. Schol.) again, and lived a fecond life. Should he Ariftoph. revive once more, and fee the Picture be-P- 357, & fore the Book that carries his Name; could 387.288.9 he think it drawn for Himfelf? or for the Monkey,

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Monkey, or fome strange Beast introduced in the Fables ? But what Revelation had this Monk about Æfop's Deformity ? For he must learn it by Dream and Vision, and not by ordinary methods of Knowledge. He lived (x) about Two Thousand Years (x) A. D. after him : and in all that tract of time, ACCCLXX there's not one fingle Author that has given the least hint, that Afop was ugly. What credit then can be given to an ignorant Monk, that broaches a new Story after fo many Ages ? In Plutarch's Convivium our Æ fop is one of the Guefts with Solon and the other Sages of Greece : there is abundance of Jeft and Raillery there among them : and particularly upon Æ fop : but no body drolls upon his ugly Face; which could hardly have escaped, had he had fuch a bad one. Perhaps you'll fay, it had been rude and indecent, to touch upon a natural Imperfection. Not at all, if it had been done foftly and jocofely. In Plato's Feast, they are very merry upon Socrates's Face, that refembled old Silenus : and in this, they twit Afop for having been a Slave : which was no more his Fault, than Deformity would have been. Philostratus has given us, in Two Books, a Description of a Gallery of Pictures; (y) one of which is Æ fop with a Chorus () P.735. of Animals about him. There he is repre-

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reprefented *fmiling and looking towards the* ground, in a posture of Thought; but not a word of his Deformity; which, were it true, must needs have been touch'd on, in an account of a Picture. The Athenians set up a noble Statue to his Honour and Memory:

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(z) Phadrus, l. xi. Mr. Patere bonoris feirent ut cuncti viam, Nec generi tribui, fed virtuti gloriam.

But had he been fuch a Monfter, as Plamudes has made of him; a Statue had been no better than a Monument of his Uglinefs: it had been kinder to his Memory, to have let that alone. But the famous Lyfippus was the Statuary that made it. And must fo great a Hand be employed to drefs up a Lump of Deformity? Agathias the Poet has left us an (a) Anthol. (a) Epigram upon that Statue:

Φιλοσ. Εύγε ποιών, Λύσιππε γέρων, Σικυώνιε πλάσα, Δεύκελον Αισώπε σύσαο το Σαμίε, &c.

DELIGITAR THILLES

How could He too have omitted to speak of it, had his Ugliness been so notorious? The Greeks have several Proverbs about Persons deformed; Oegoirson Grigger, Eider, Sig

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Eider Sig Konudeus, &rc. Our Elop, if lo very ugly, had been in the first rank of them; efpecially when his Statue had flood there, to put every body in mind of it. He was a great Favourite of Creefus King of Lydia; who employ'd him, as his Embaffador to Corinth and Delphi. But would fuch a Monster, as Planudes has fet out, be a fit Companion for a Prince ? or a proper Embassador; to be hooted at by all the Boys, where-ever he came ? . Plutarch reprefents him as a polite and elegant Courtier; rebuking Solon for his gruff and clownish behaviour with Crefus; telling him, he must converse with Princes, (b) in wis idisa, it wis invou, either agreeably, (b) Plue. or not at all. Now, could either fuch a in Solone. Station, or fuch a Difcourse befit Æ fop ; if he was truly that Scare-crow, as he is now commonly painted ? But I with I could do that justice to the Memory of our Phrygian; to oblige the Painters to change their Pencil. For 'tis certain, he was no Deformed Perfon ; and 'tis probable, he was very Handfom. For whether he was a Pbrygian, or, as others fay, a Thracian ; he must have been fold into Samos by a Trader in Slaves. And 'tis well known, that that fort of People commonly bought up the most Beautiful they could light on ; becaufe they would yield the

the most Profit. And there is mention of two Slaves, Fellow-Servants together, *Æfop* and *Rhodopis* a Woman; and if we may guess him by his Companion and (c) Pliny (b) Contubernalis, we must needs believe xxxvi, 12. (d) Herodohim a Comely Person. For (c) that Rhodopis was the greatest Beauty of all her Strabe. Age: and even a Proverb arole in Memory of it;

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