Askesian Society

Contributors

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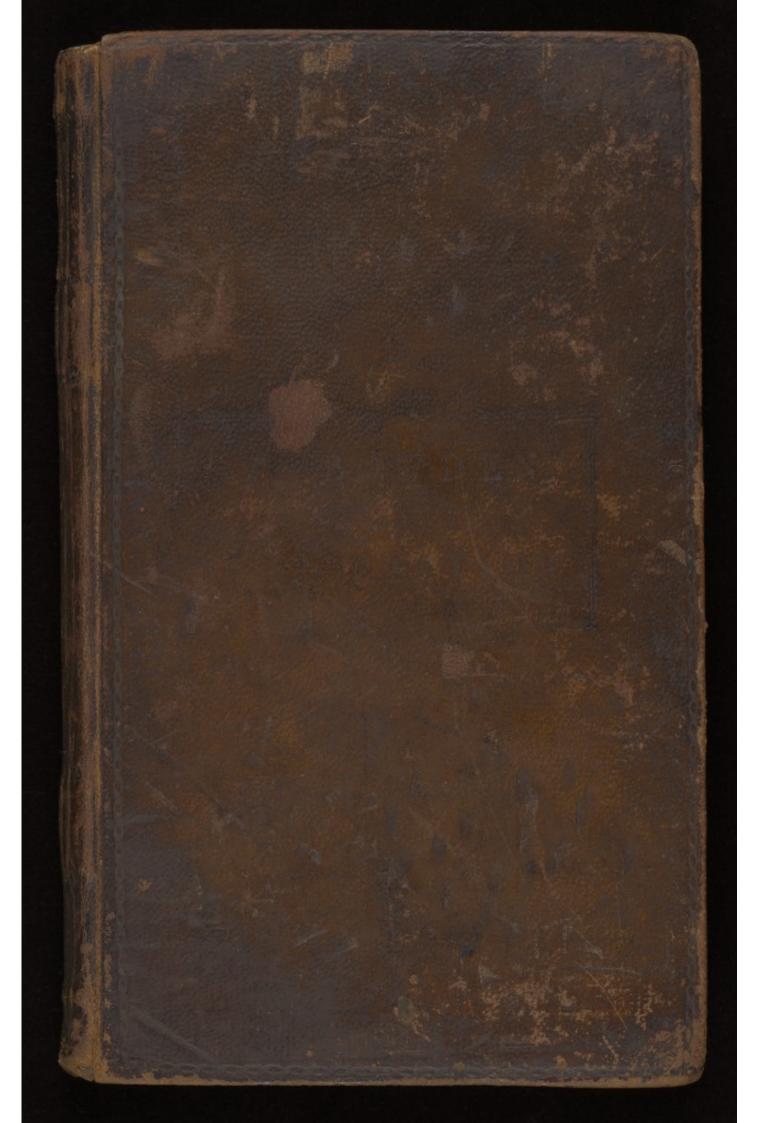
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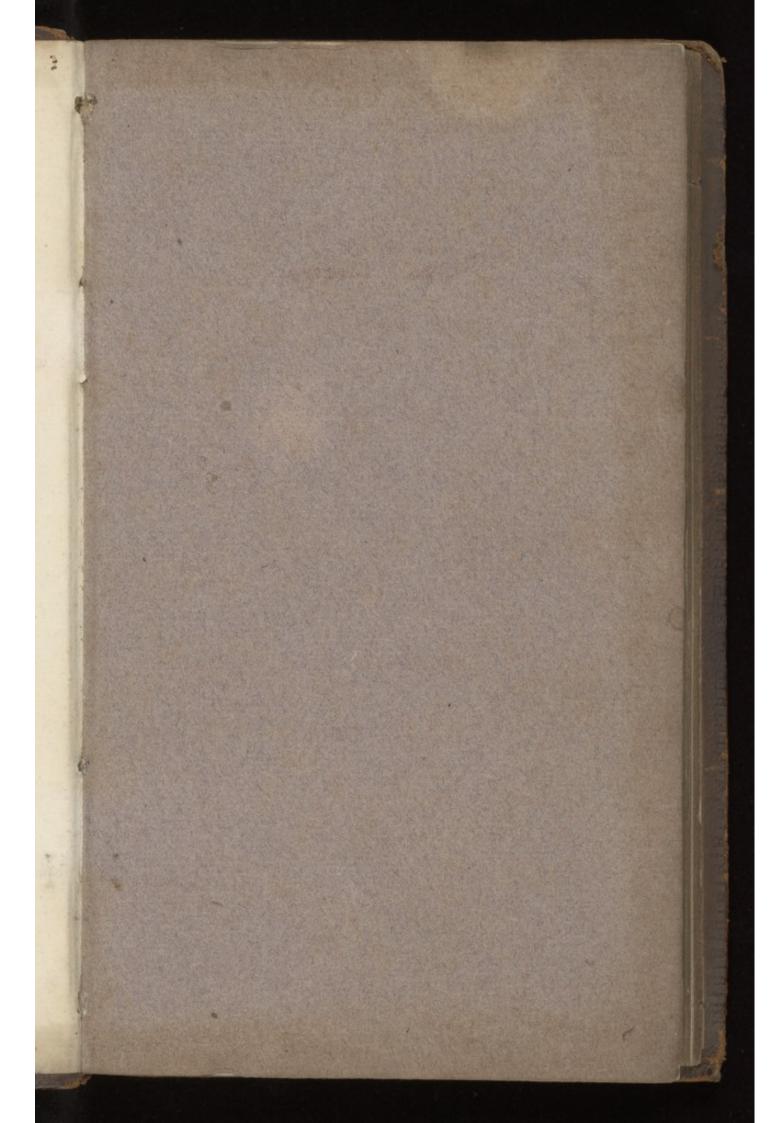


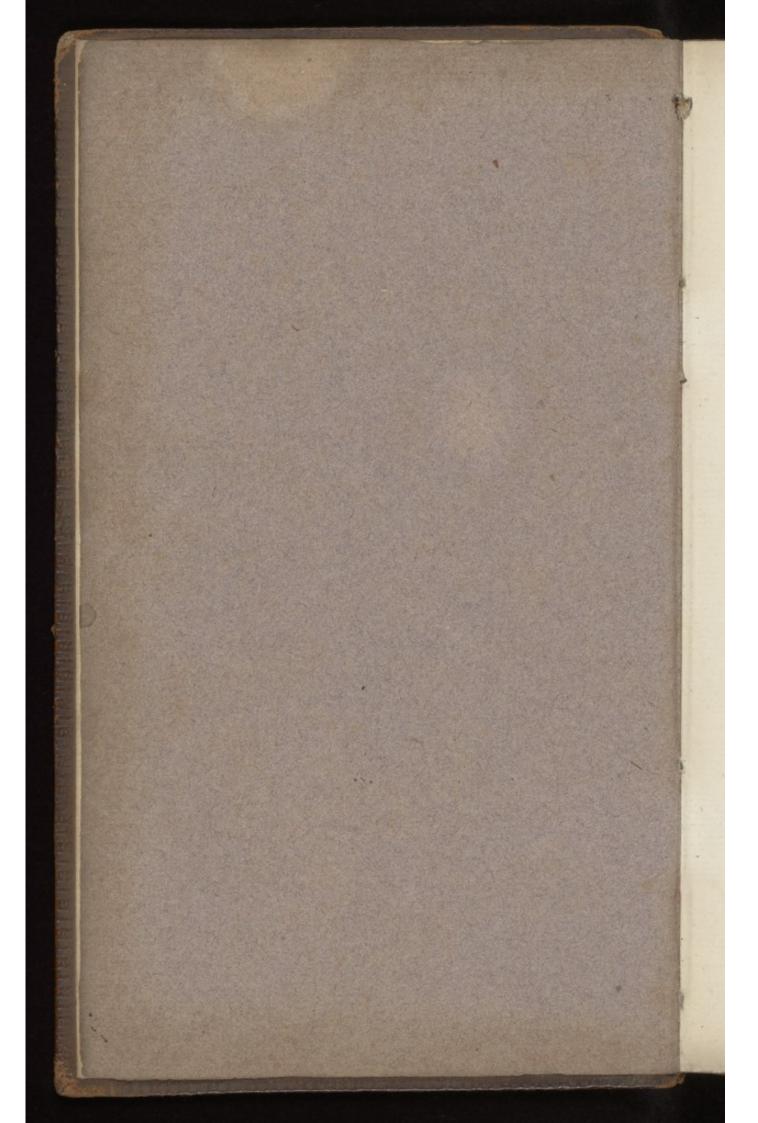
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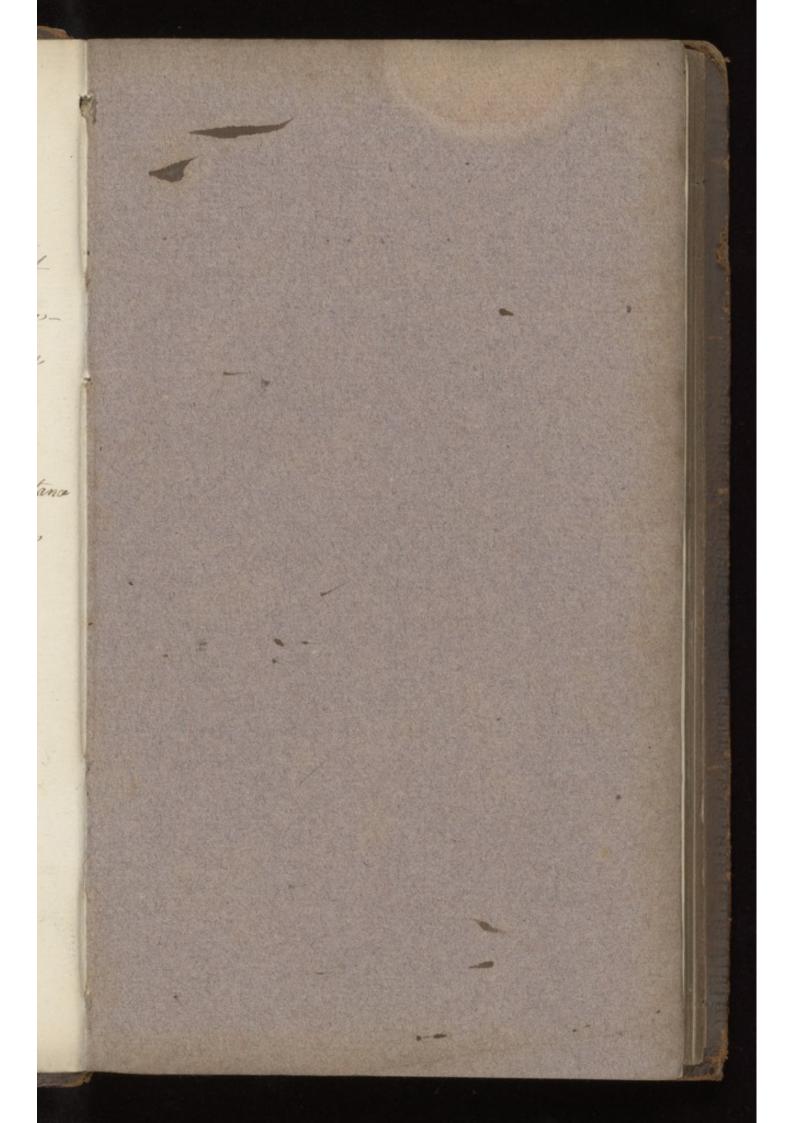


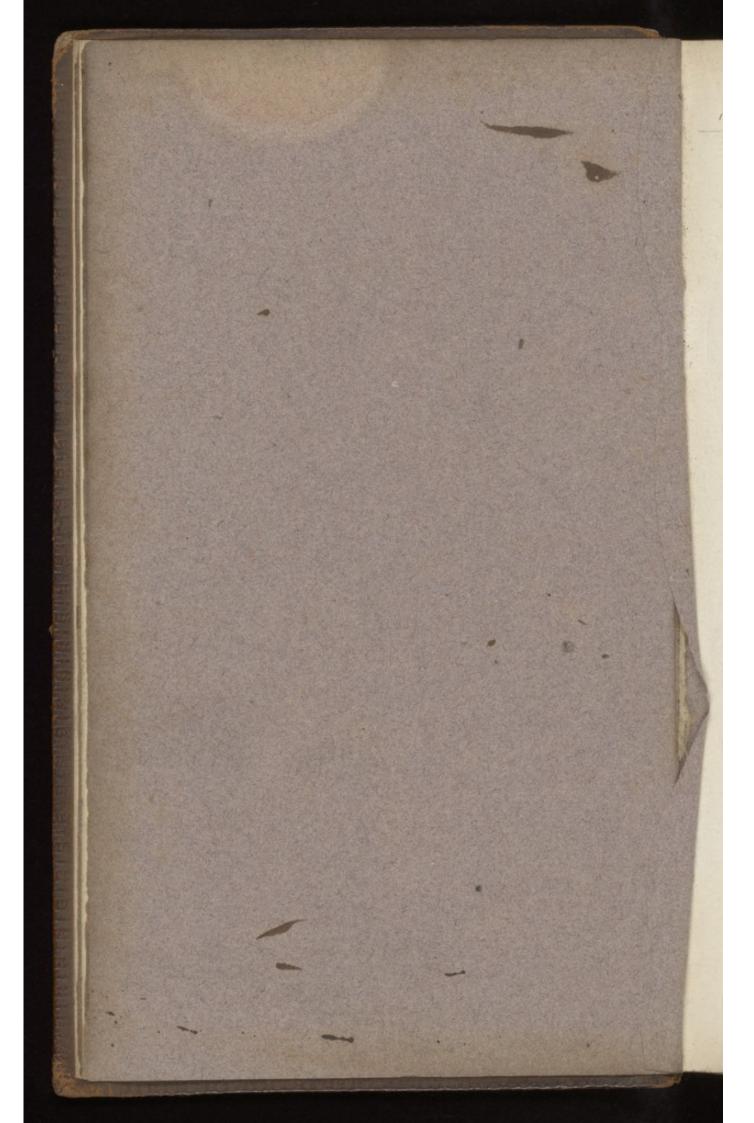


Experimental Committee Askesian Society, Committee M. H. Pepys Am allen

Sam Mords

distinct Single c - with a double hough very Sharp one hough filled with murial of animonia withat of do No. 1 appears to be the shongest circuit of 8 - intensity diminishes as the no. very sensible - effect increased by a price of I moist pasteboard between the cups very distinct from apoint & aflat surfacedeflagration of gold leaf tof gunpowder effected for effect upon the galvanometer in diverging the gold leaf very sensible - Shiking distance according to the register exactly 1/2 inch ,

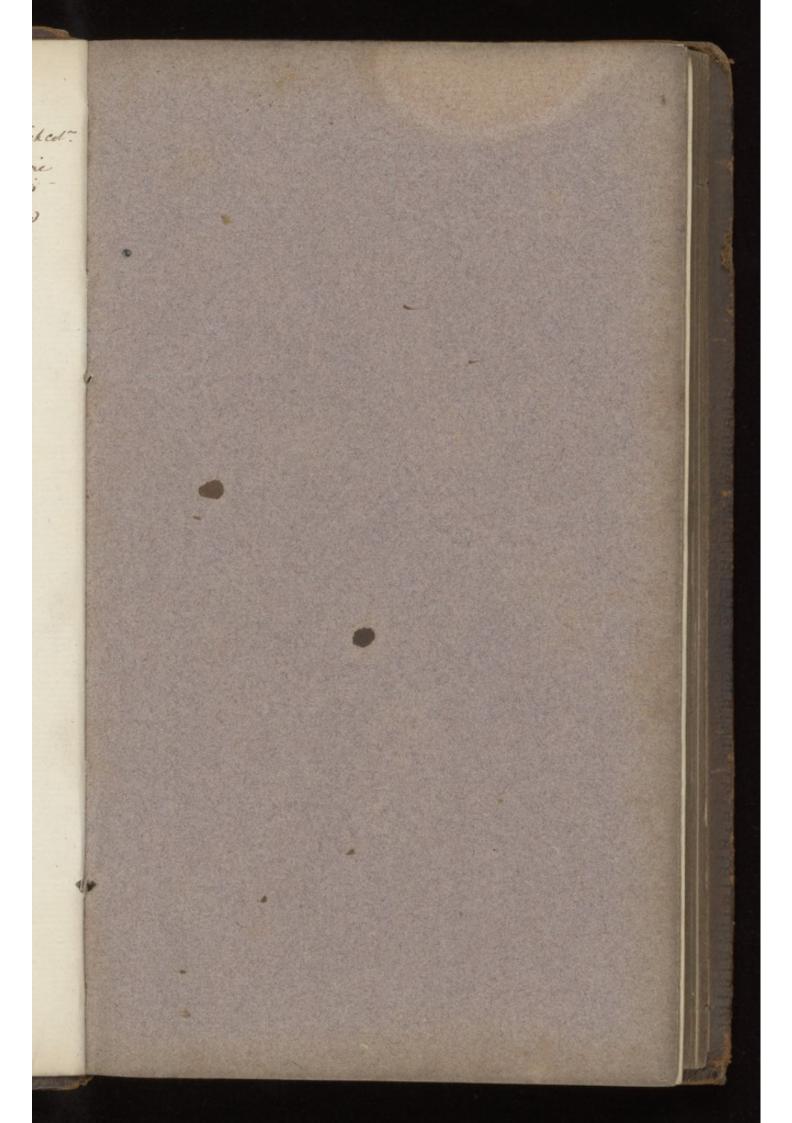


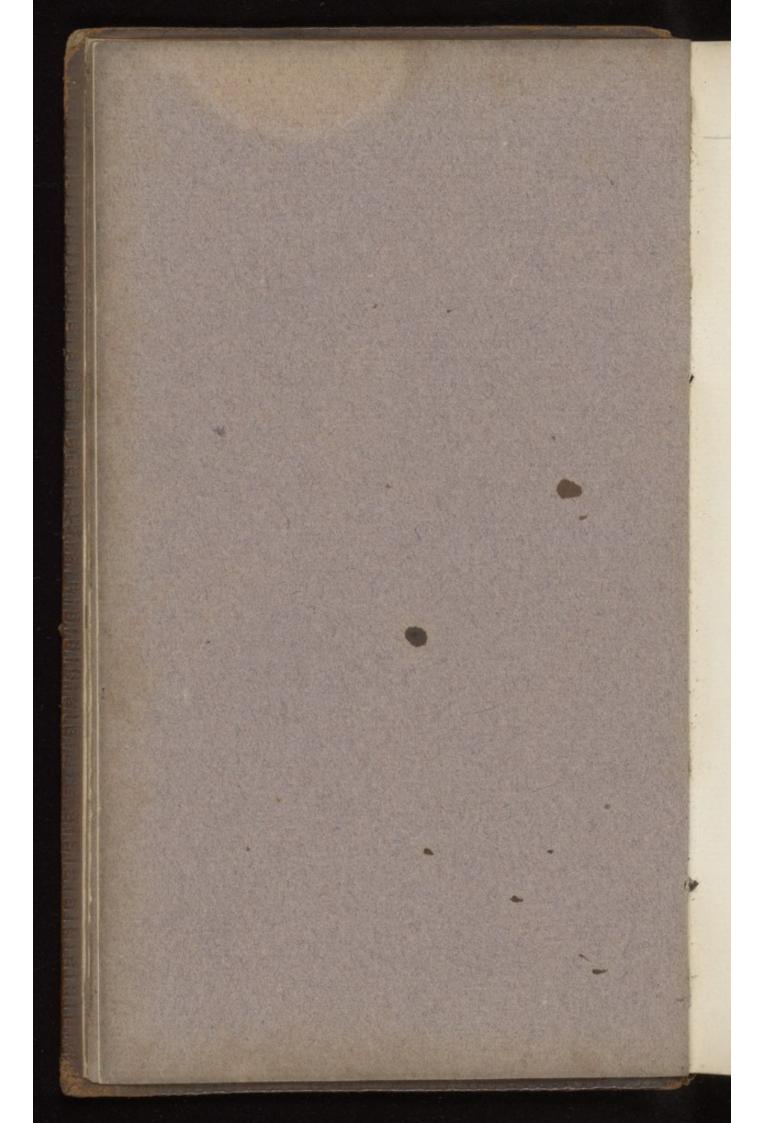


Askesian Meeting - 3. Nov. 1801_

Valvanism first-noticed by balvani at Bologna ab: 10 yrs ago When dissecting a frog Solvering the Shong contraction of the nerves when a spark was drawn from the conductor of an dectrical machine This contraction produced by zinc & selver a plate of zinc on the upper surface of the longue on contact a sensation resembling taste-subseed accomp by a slight shock I densation of a flash of light water in a tin or zinc cup placed on a selver support if the tonger be applied to the water it is quite insified but if the hand is well envistened holds the selver suphase a distinct tasto is fur achtible - the diff tasto of water a porter in a glass La peculier pot owing to the galvanie influence pile of Volta galvanie hough Shock resembles that of a Leyden Phial weakly charged downot penetrale the Stin unless each hand be well wetted Lafrice of metal grashed in each not instantaments - kernulous Loont . Linsation galvanic Shark - pine pointed iron wire - knot both exhemities of the conductors around with goldleaf flash at the externity of the Selver wire othat which of immersio in water we disengage hydrogen) - the oxygen or Line wire exhibits only afaint luminous point f plus & minus - condenser delectromer

a with great success - production of guis of of anyd of Silver very rapid & distinct di - syr violets & Zine wie - plackround with pinked. f- repeated with success - metallic needles formed on the silver wire -- metallie brown on the zine wire delver wire with a white crust Shock very Sensible thro 13 pressons -





at our last inceling we showed the mechanical operation of galvanism - we shall this evening display it offers as a chemical agent in the decemp of water, of well butures of on the solution of melals -

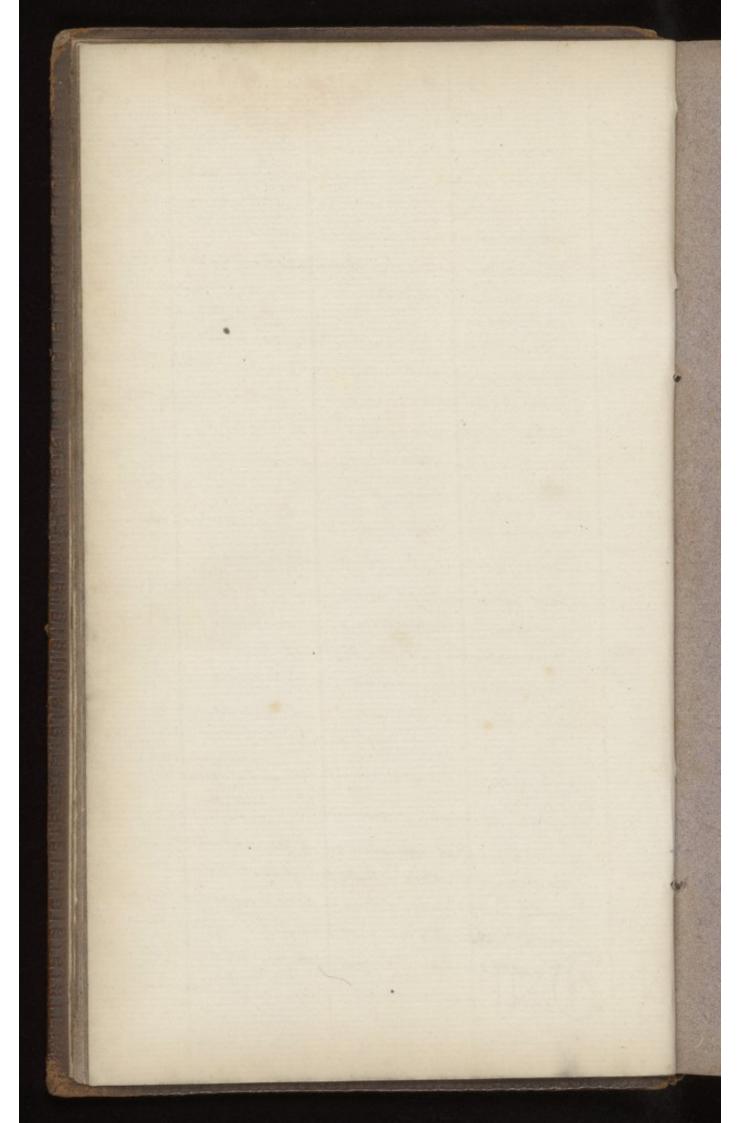
- a decompost of wetr- fine stan of gas from the lower were in very minute bubbles in common with the between of the hough) this were will remain clean thight from the upper for zine) wire no gas but oxidates capitly from the upper for zine) wire no gas but oxidates capitly the oxyd gradually subsides in the form of very fine cloud water diminished in quantity gas ex hydrogen file inverted rice versa -
- b- use how unoxydable wires gas issues fromeach of the water diminished mixture of hydr. Lory . captodes -
- Co- 12? more accurately by M. Crecileshank Vintate out ofwater of water of the ascert proportion
- d- tench likning with goldwines gas as before Time wire at bottom fine red line extending whowards obshally thewhole fluid mean the point of this wire be comes red-the fluid ab! the silver wire deeper blue
- e tinet brasil wood dilver wire purple very dub

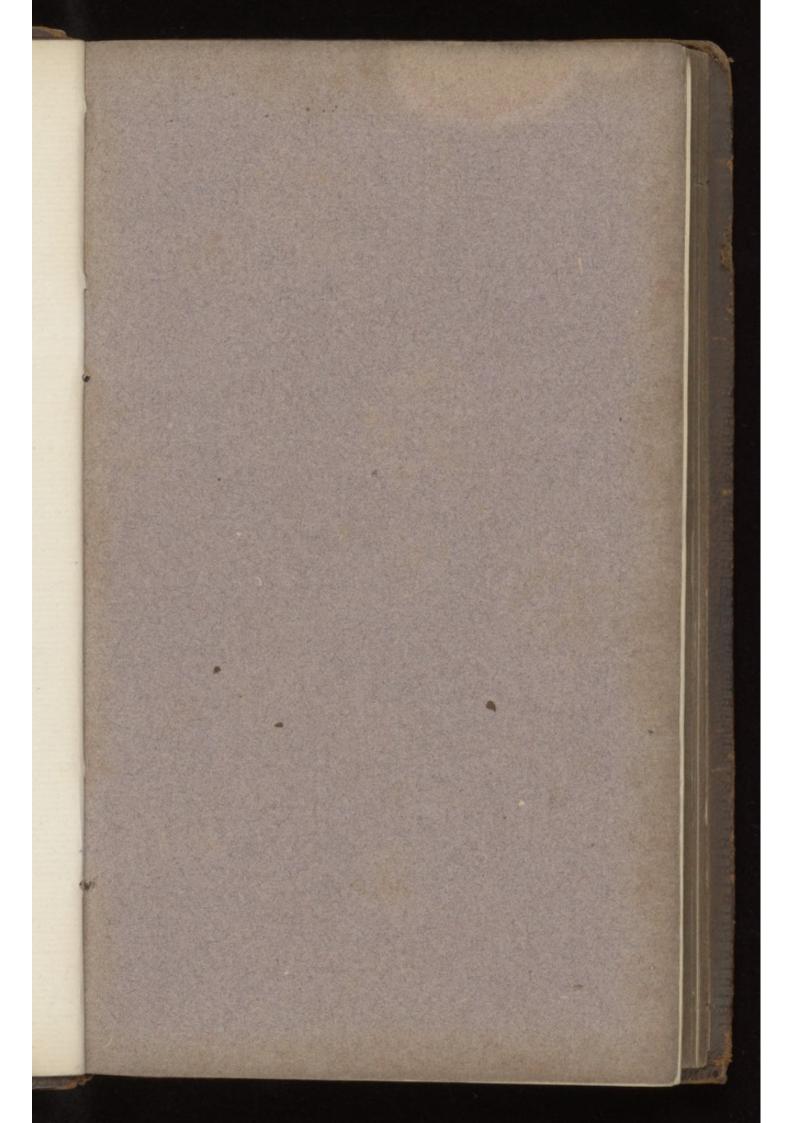
 Zine wire very pale almost clots

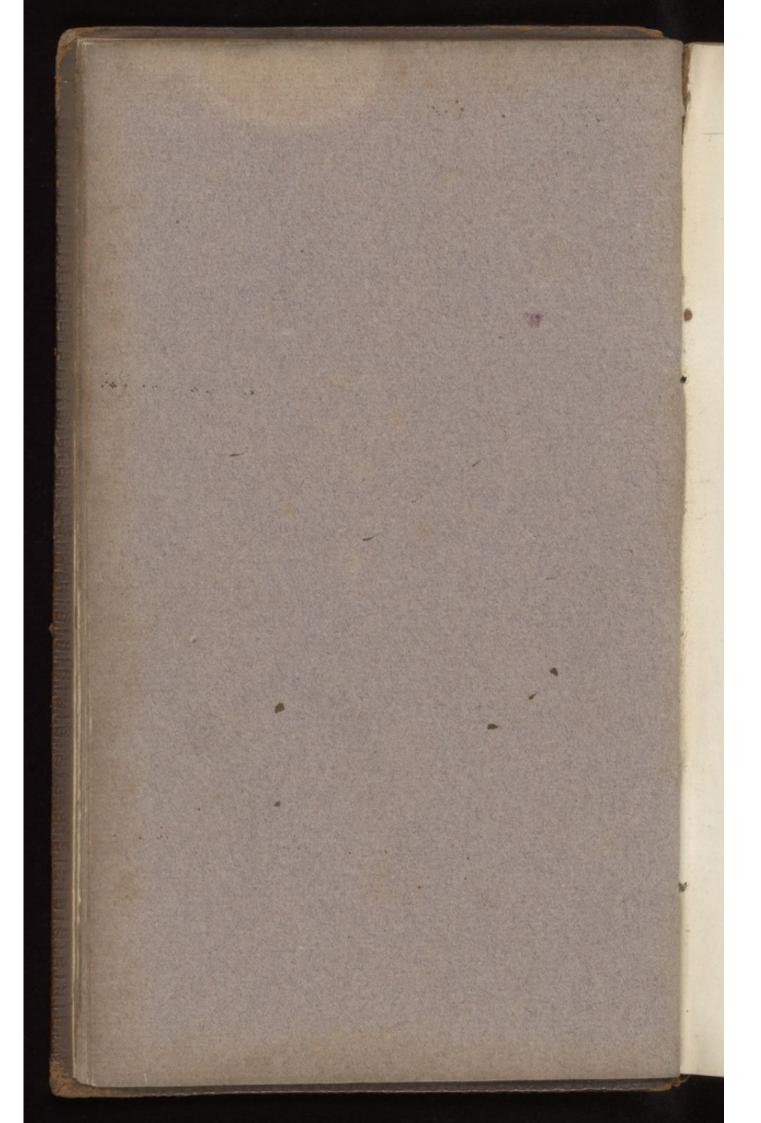
 mitrous acid? from the Zine wire ajote of common air heavy wh

 alkali? ammonia? from silver wire agote -

well knownthat hydrogen in it mascent state reduces the acides of metals - tube filled with a solution of acetile oflead in distitled water, no gas, but beautiful metallic meedles on the extremity of the silver wire melallic meedles on the extremity of the silver wire thelead thus deparated completely metallic & hilliant solution of Sulphat of copper - copper precipi in the form of a button







he solution of with at of silver - beautiful metallie brush in the form of needle like crystals

It fluids not containing anygen as alcohol, ether, fath incapable of hanymetting the galvanic fluid incapable of hanymetting the galvanic fluid from ammoniae with situal wine modely the same office, it dilute solution of with at offillower-pure ammoniae tapied production of gas from the silver separates from the silver wine - dt grey provider from zine wine from the silver wine - dt grey provider from zine wine after some hours a considerable quantity of metallic silver after some hours a considerable quantity of metallic silver superited of the zine wine encrusted by a blueish black substance - on endiavouring to zemove this cruw with the finger part exploded the still moist wire to consider the full of holes - next marring this powder to brushed with a knife exploded love day - fulm silver of Buthollet

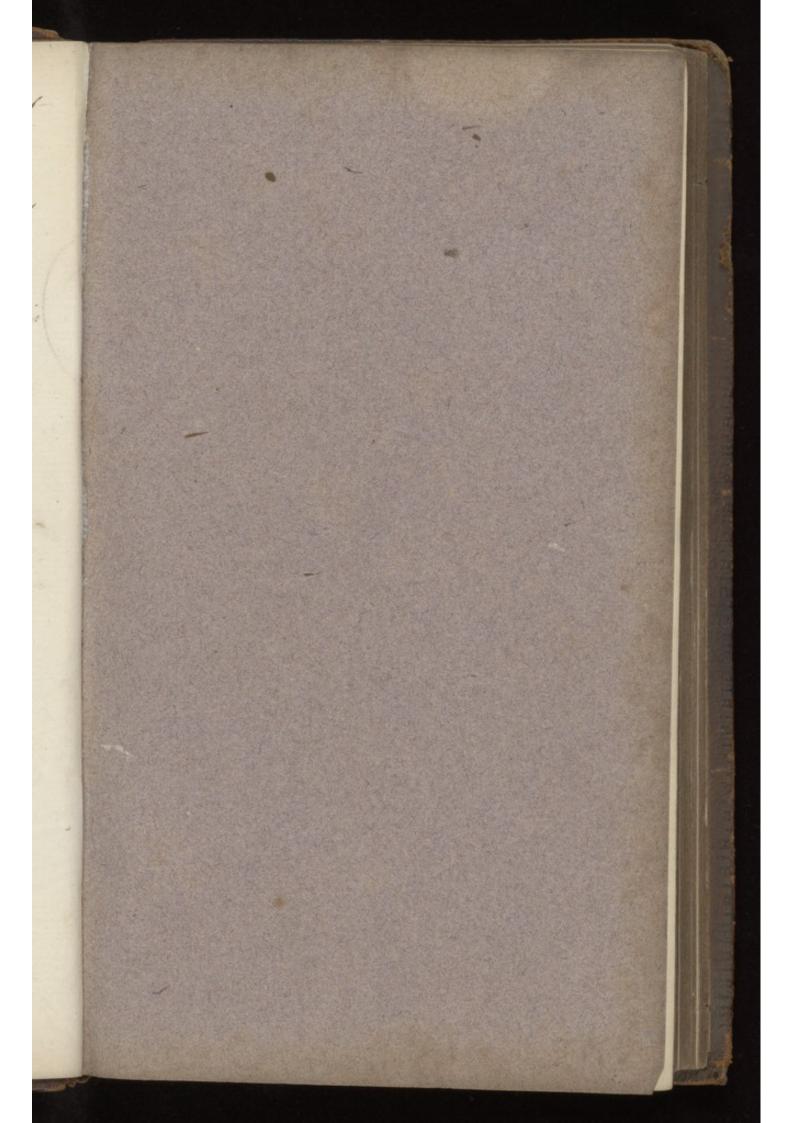
k pure ammonia - platina wires - gas rapidly hood?

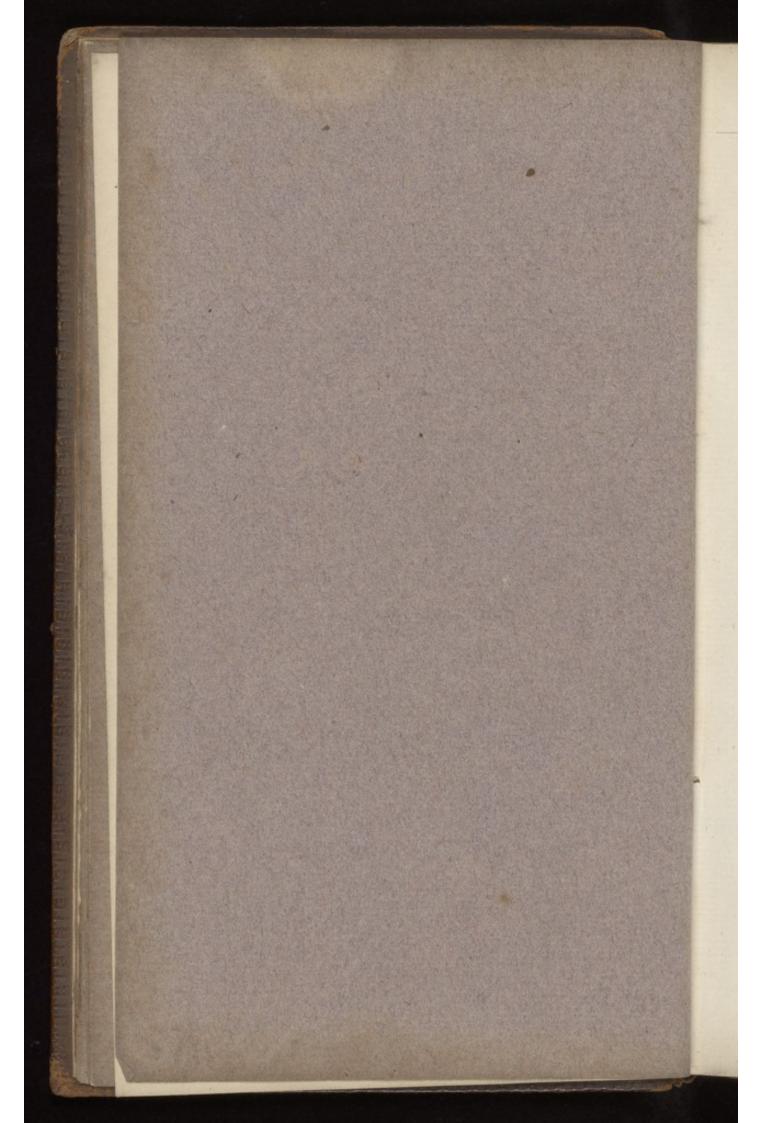
at both wires - hydr. bagot - = as in ammonia

concentrated nitrous and - most powerful in Medicy

Mr. Quicks hank's theorycapable of existing in the states - augeonated & deory gen?
capable of existing in the states wife into afliced seizes it passing from the silver wire into afliced seizes it rayger thassing from the fluid into the Time wire harts with it again -

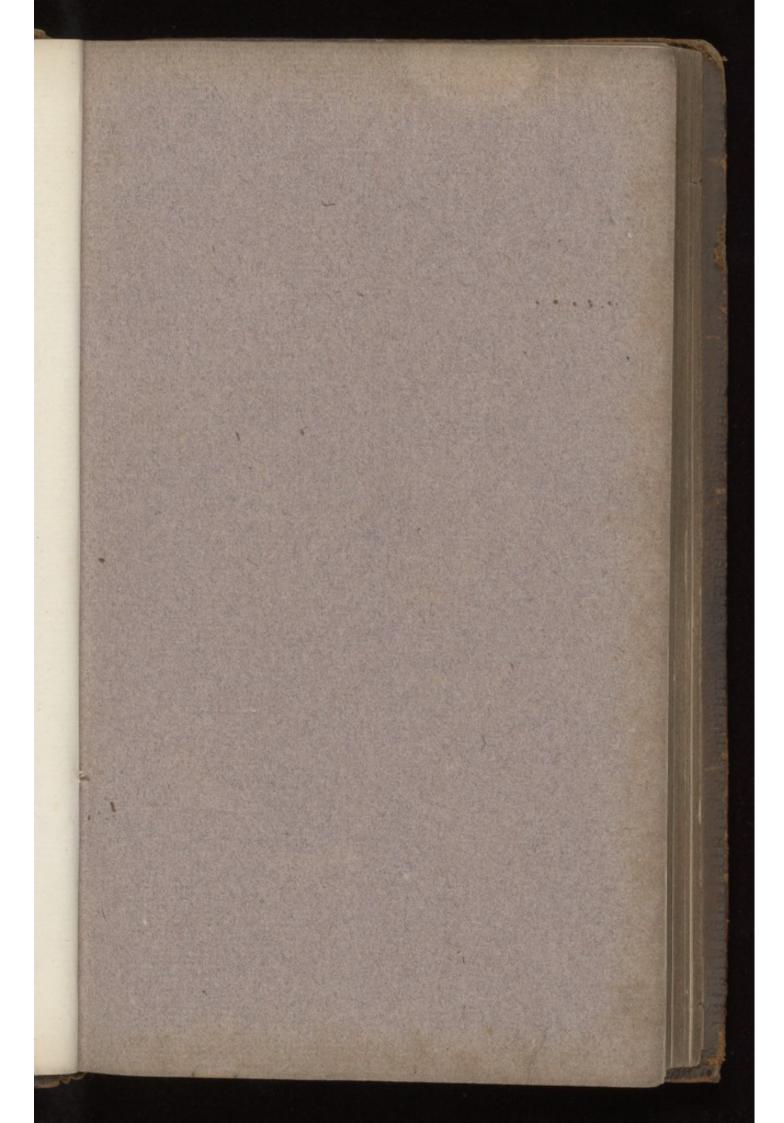
c &d - unsuccesful according to the report of Mikipys very distinct - plainly perceptible -. - the effect of this experiment is clear totiling - the attempt to charge a Luyden Phial Succeeded very imperfully - by forming the circuit with the tongue asharp prich is perceptible -

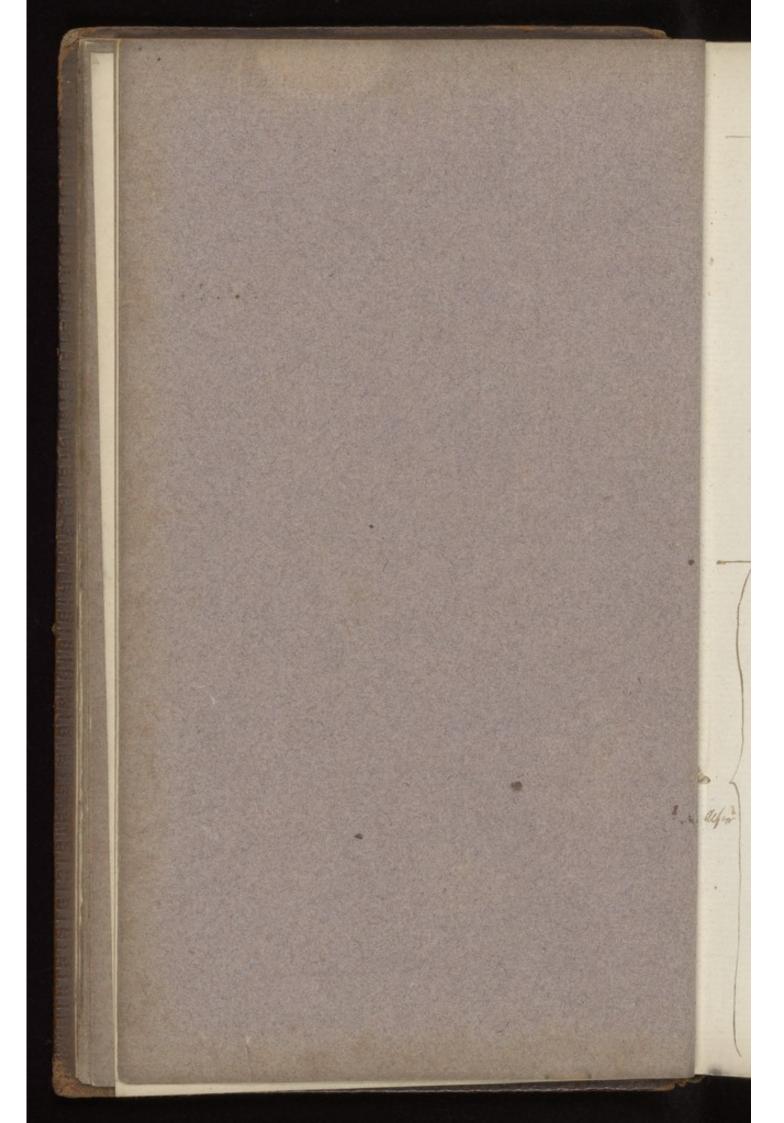




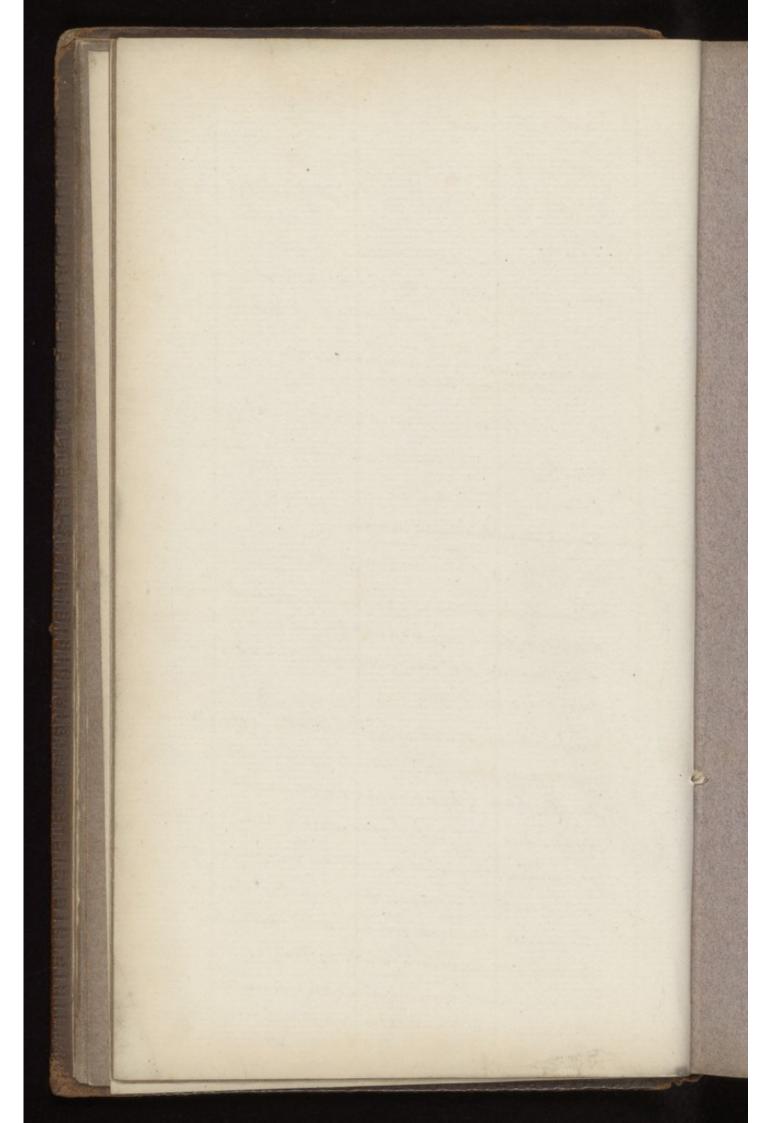
Dec. 1 1801 Galvanism at what distance the communicating wires will decompose water 6 charge a heyden phial deflagitation of wire in oxygen gas pie oxygen thy dwgen Solution of copper - silver siron in contact copper precip on the silver of Solution of linfoil Lgold in diluted nitr acid a decomposition of Sulphune acid h indication of the positive Angalive State of the galvanie fluid by the galvanometer

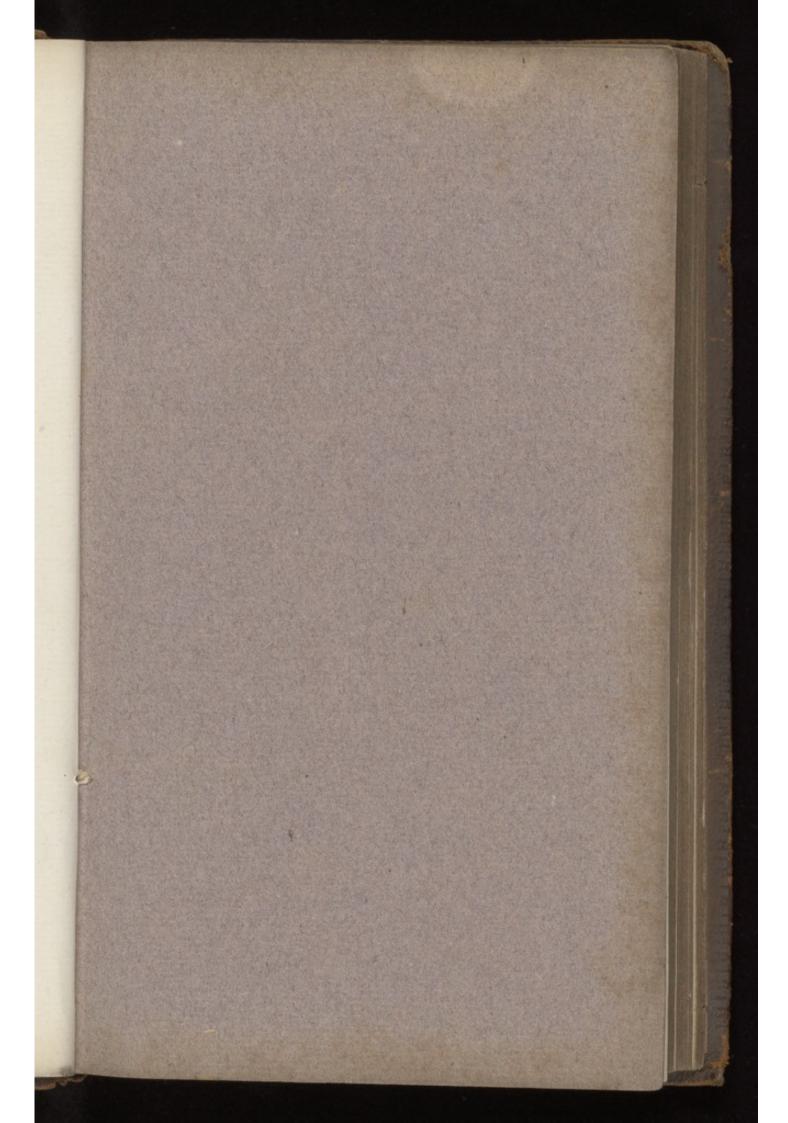
Bennets electrometer - glass twans evaporation elect aura amalgam Tine buncury - oxydable glass Stool

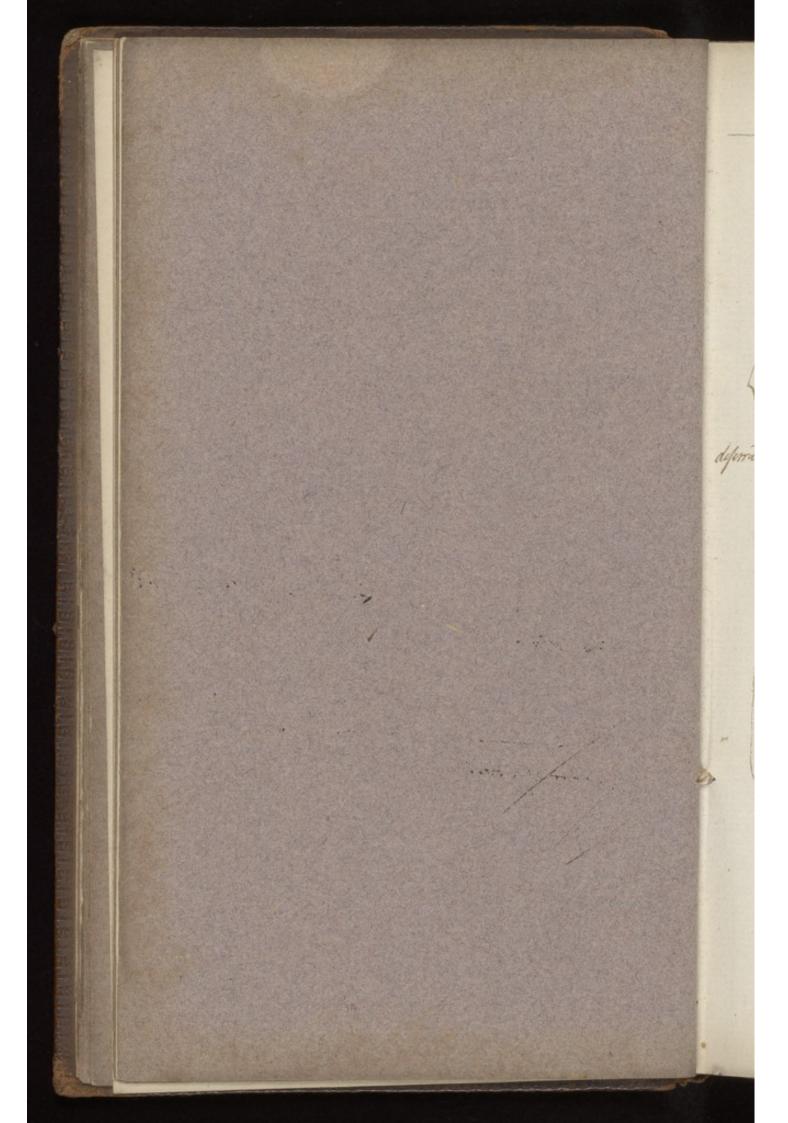




Dec 15 Electricity Two fluids or modifications whener - produced by the piction of glass, hair wood dother similar Substances - Supposes to he redundant bealled positive or plus Twinous - produced by the piction of amber gum Jula to supposed to be deficient & called negative a minus these repel the meeting Lateract each other accumulation of either fluid heyden Phial - bunans at 1745 Construction of the anachine ingentions Shock Charge paper parted our ware Analysis of the Leyden pheal The whole operation of charging consists in conveying thefluid from one vide of the glass to the other The quantity of electricity is the danne after charging as before 6- insulate an uncharged phial it will not change make a communication by which the fluid may Escape of the phiae maybe charged achin ly means of pith balls show that the inside is positive repets) the outside negative (attracts) glass not pervious - to restore the equilibrium The inside Soutside must necessarily be joined by some conducting Substance hing the knob communicating with the inside as 2 in destant from allere communicativis with the outside - Suspend a with ball between them ate attraction - vial discharged

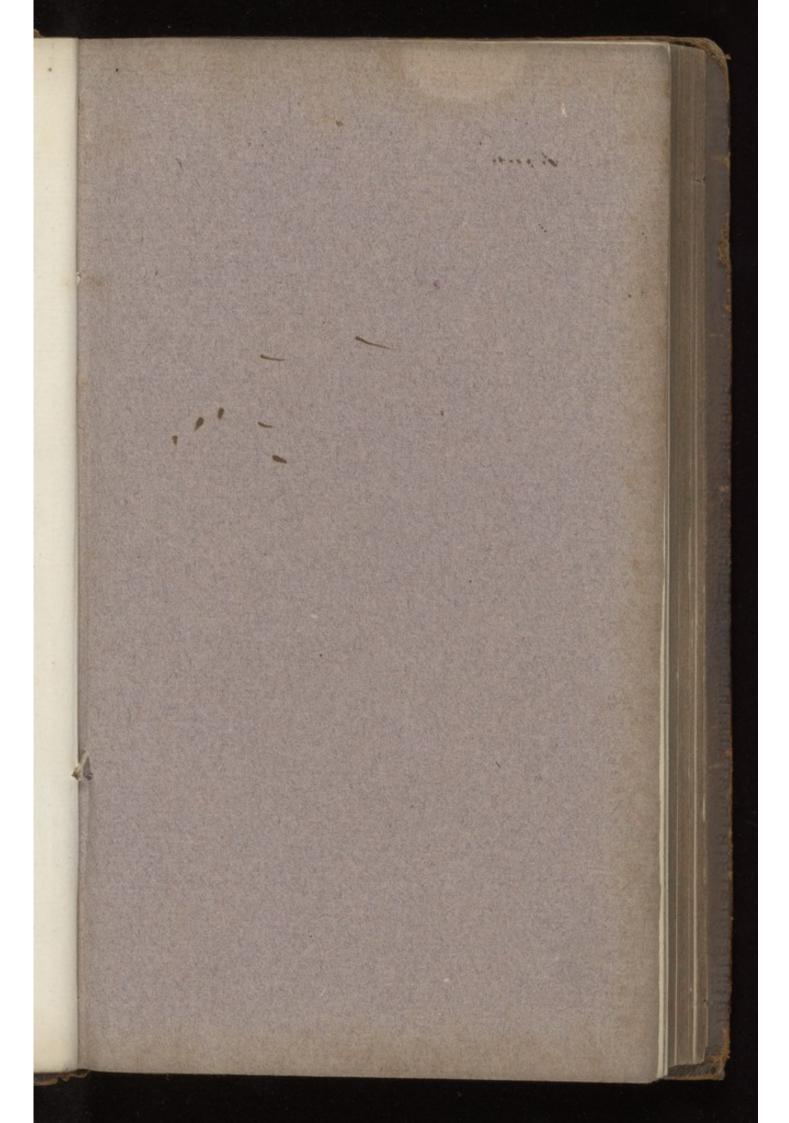


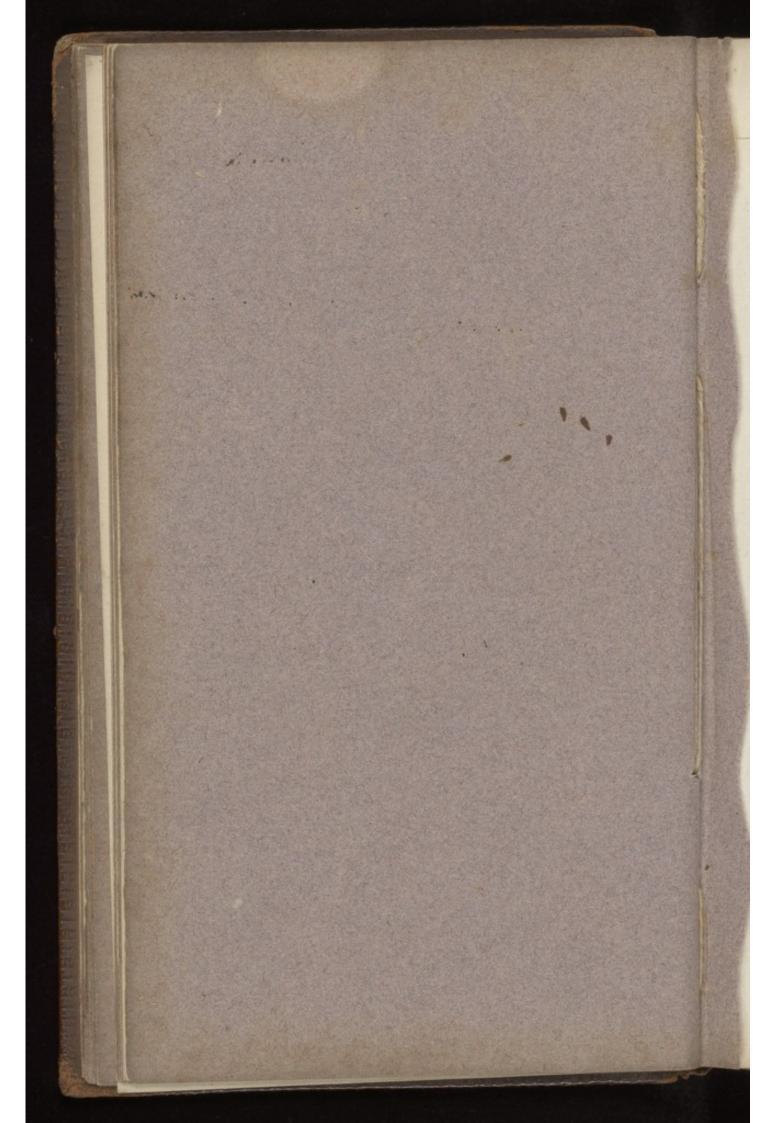




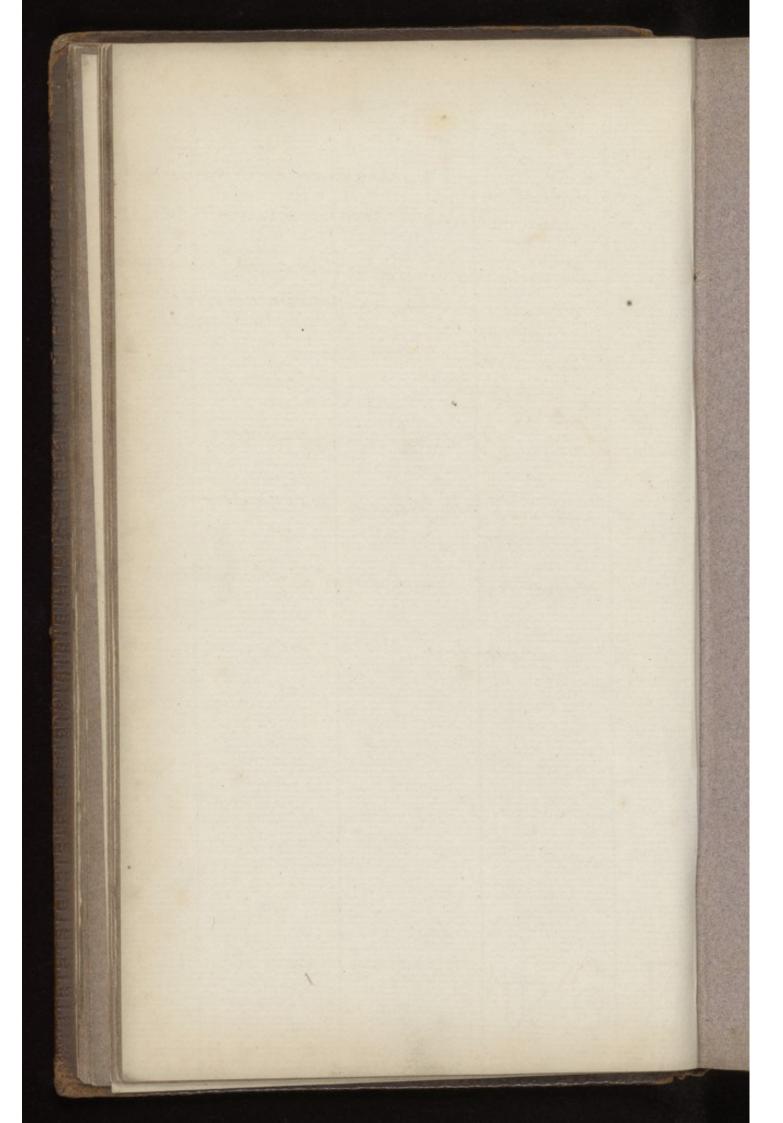
toprove that one side loses as much as theother g hang a fine linen thread near the outside bring Infinger near the inside wire - the outside Supplies itself from the Mread h- insulate the tubber - no charge foun a communication between theoutside Coating & the ins. rubber _ charged with ease e insidate the phial. In this case it is plain the same fire which existed on the outside is conveyed by the wire to the deferred Tilber, from thence to the electric, the conductor othe inside of the phial this fact led to the condruction of a battery - which by connecting the inside of one with the outside of another of thus hansferring the flied in many Chials with the same facility as ones A flower of accomutation not in the watering from by removing the wating

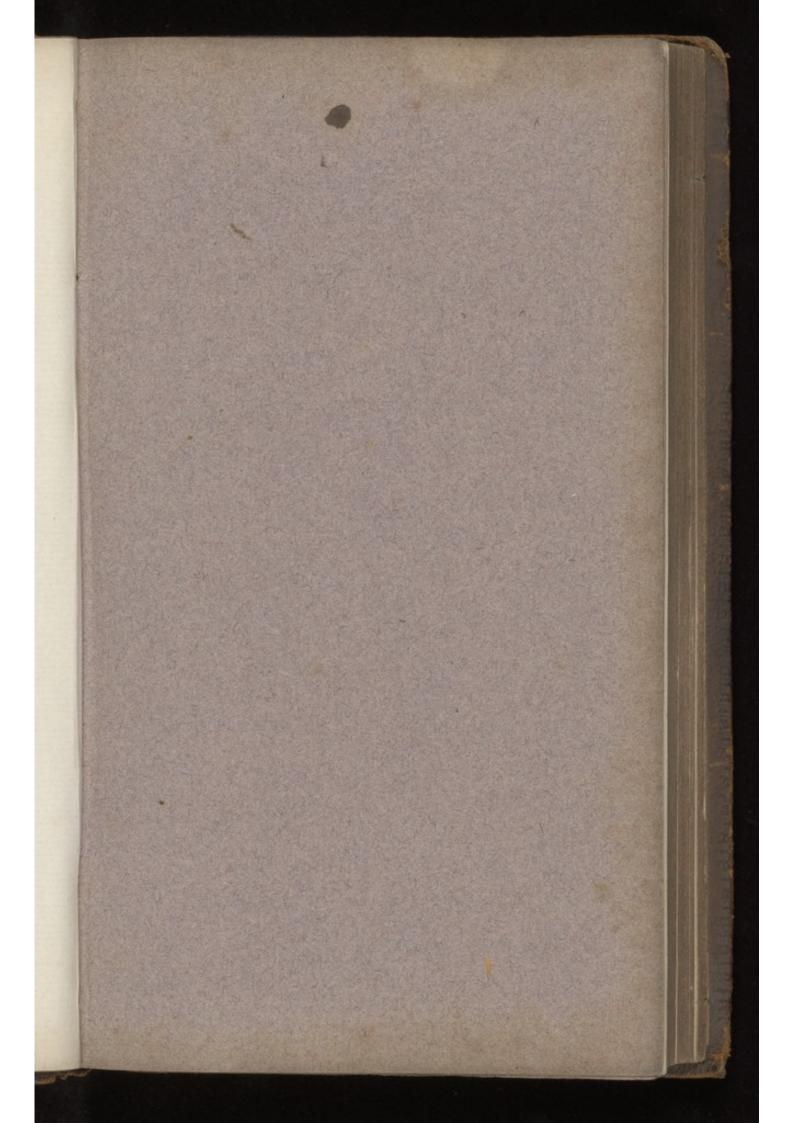
a __ Satisfactory 6_ distinct but not luminous d - no rapid mettin files much distended - Oshich feather - head ofhair cotton_ Silk bells - Spider requires very small portion of elichicity - figures -

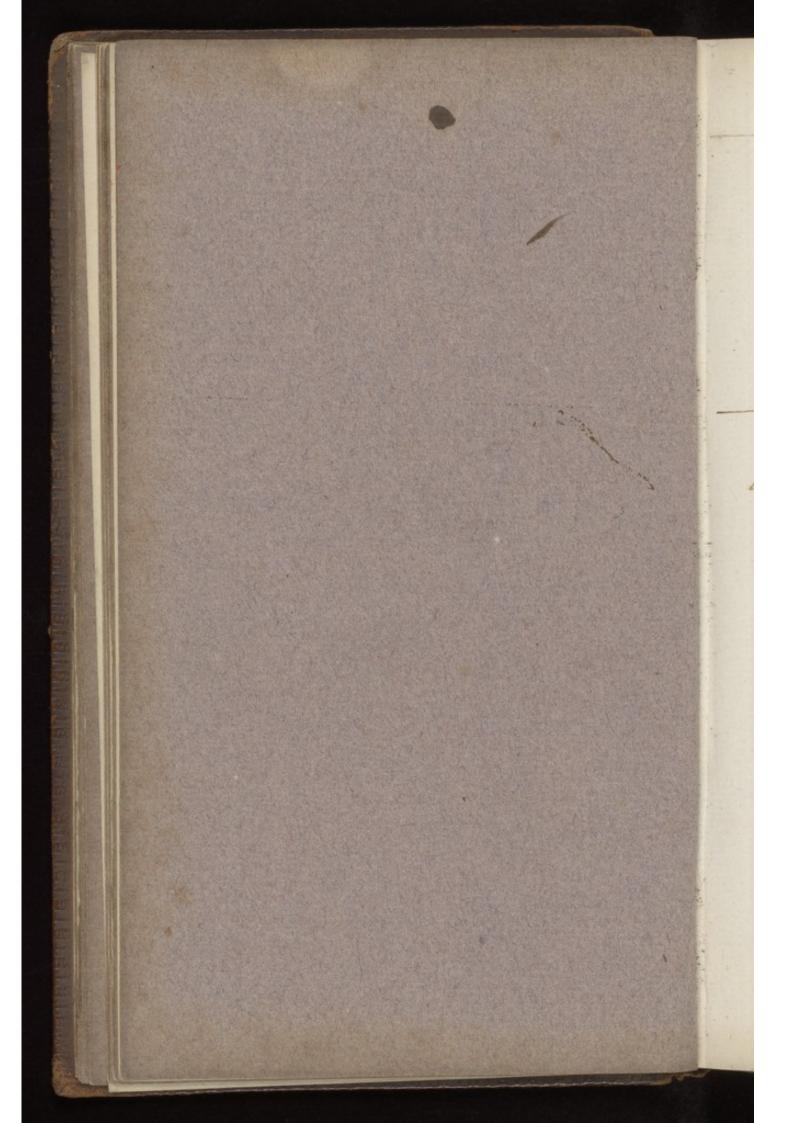




January 12 1802 Lariven about by an excited glass tube hat gold attracted by excited Sealing wax produced by luminous shower of brass dust offered give to the prime conductor between how metal plates 8 in a glass tube Elect. bells deques 2 spider motion of a fine downy feather extension of the fibes of a large plumy feather bundles of thread, hair, Sith Lcotton longsparks

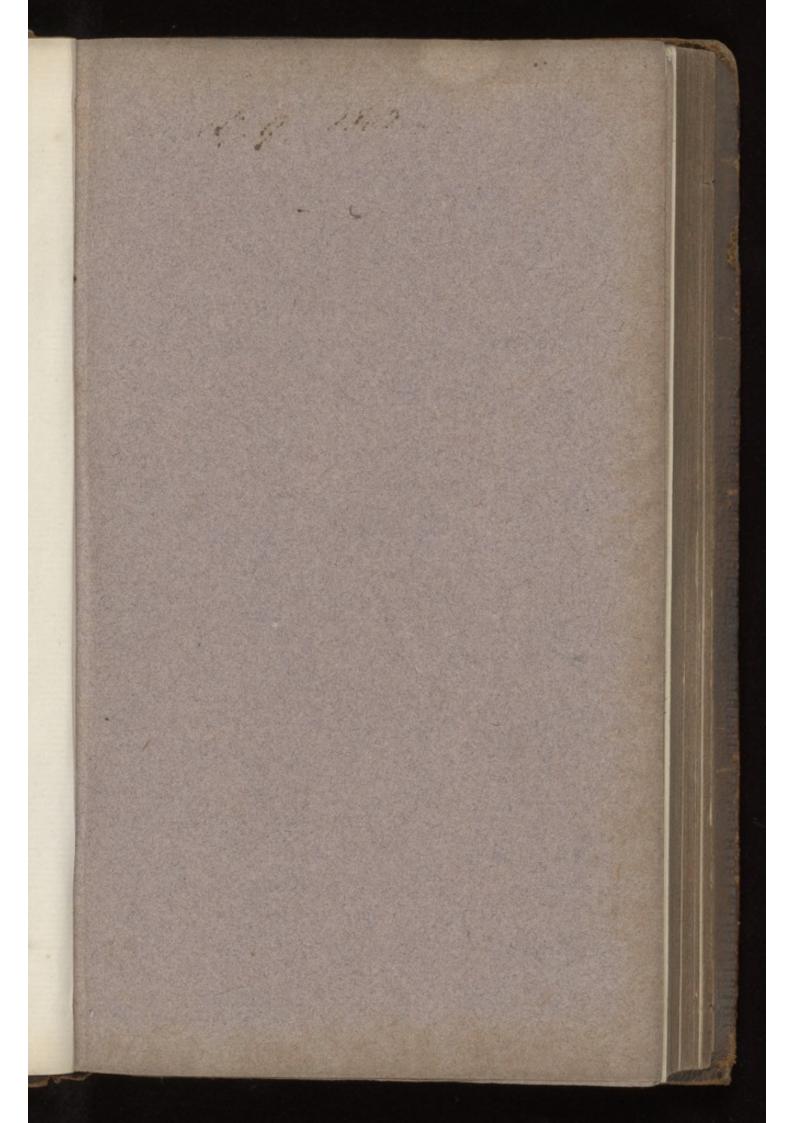


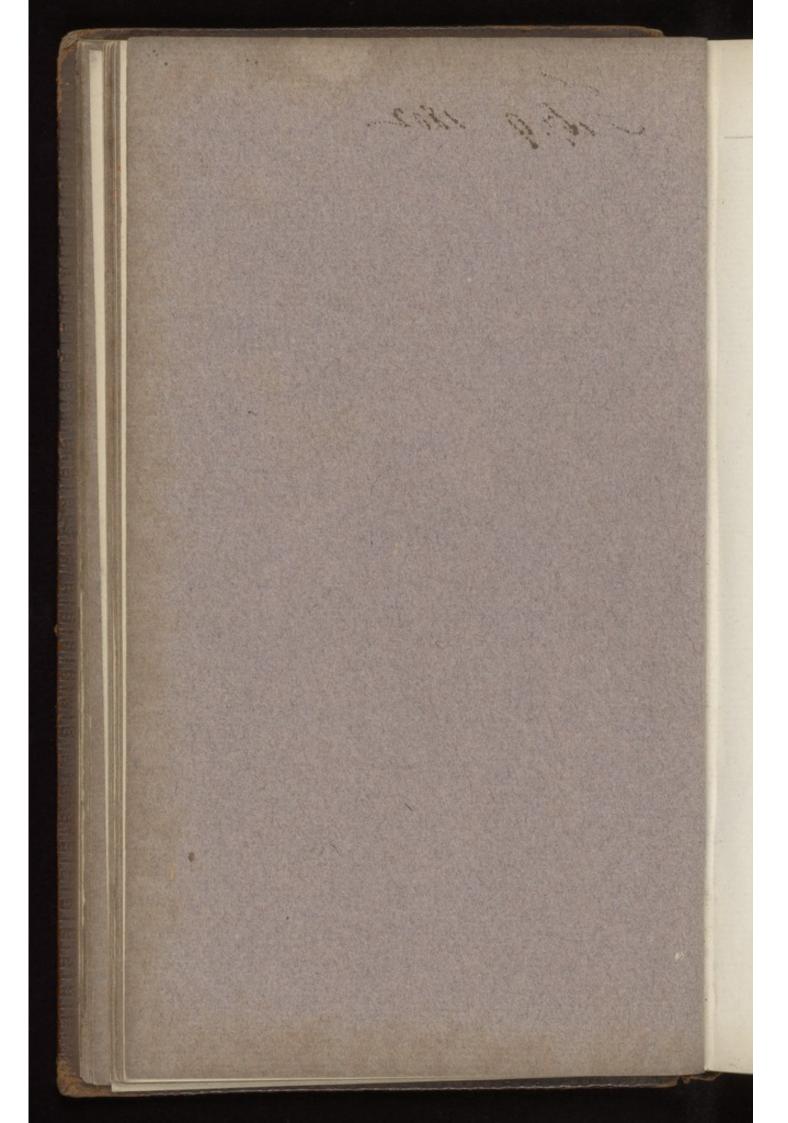




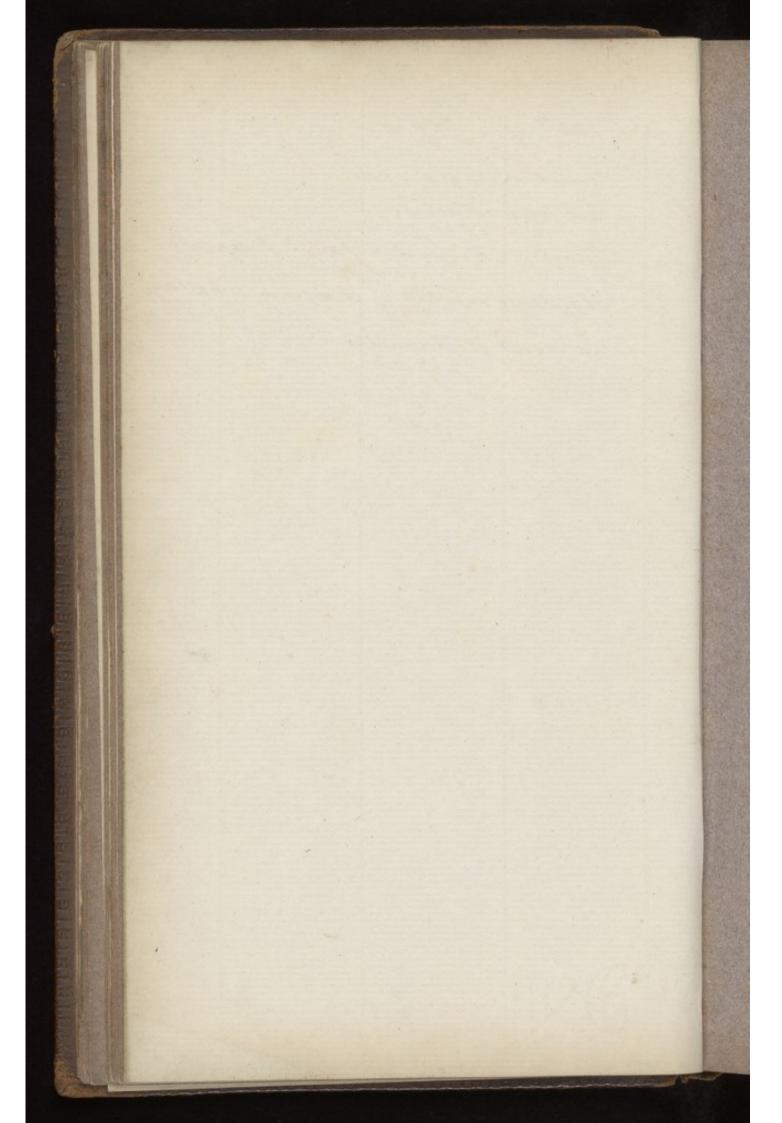
Pans. 26_ 1802 Maines large Machine how Yars - charged without communication with the earth Several luminous experimentsdischarge of a small cannon

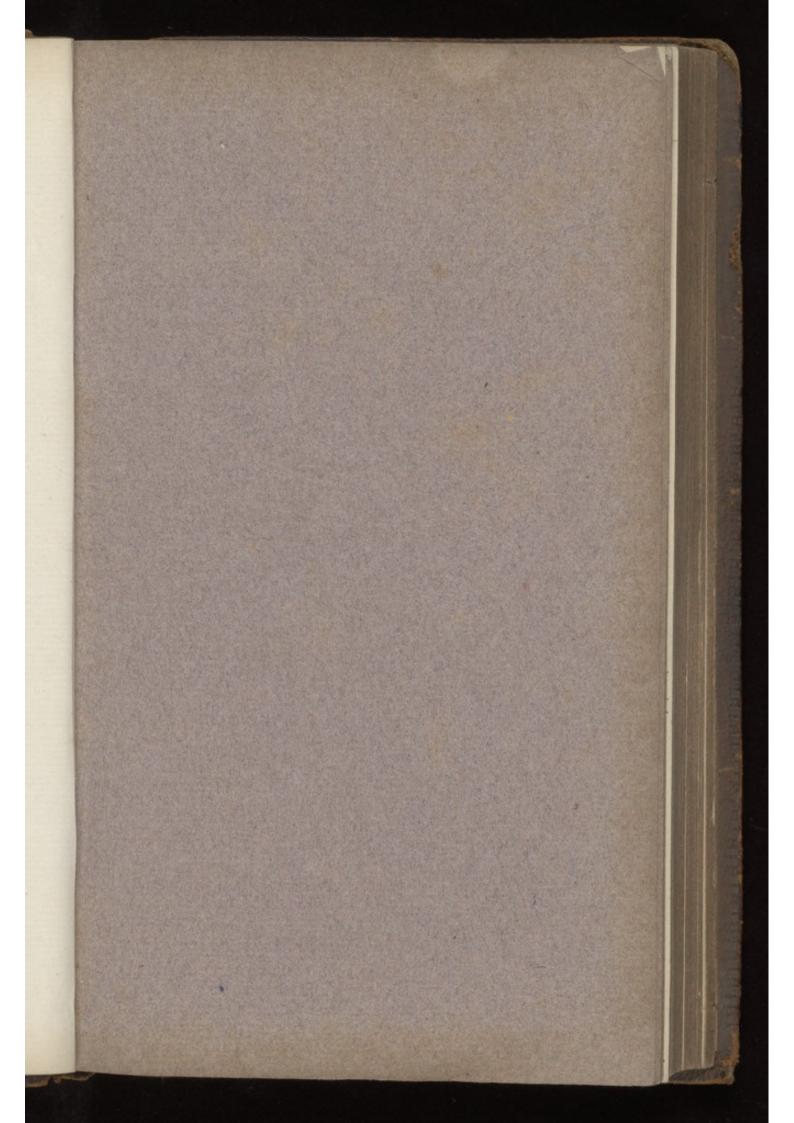
alone Balington

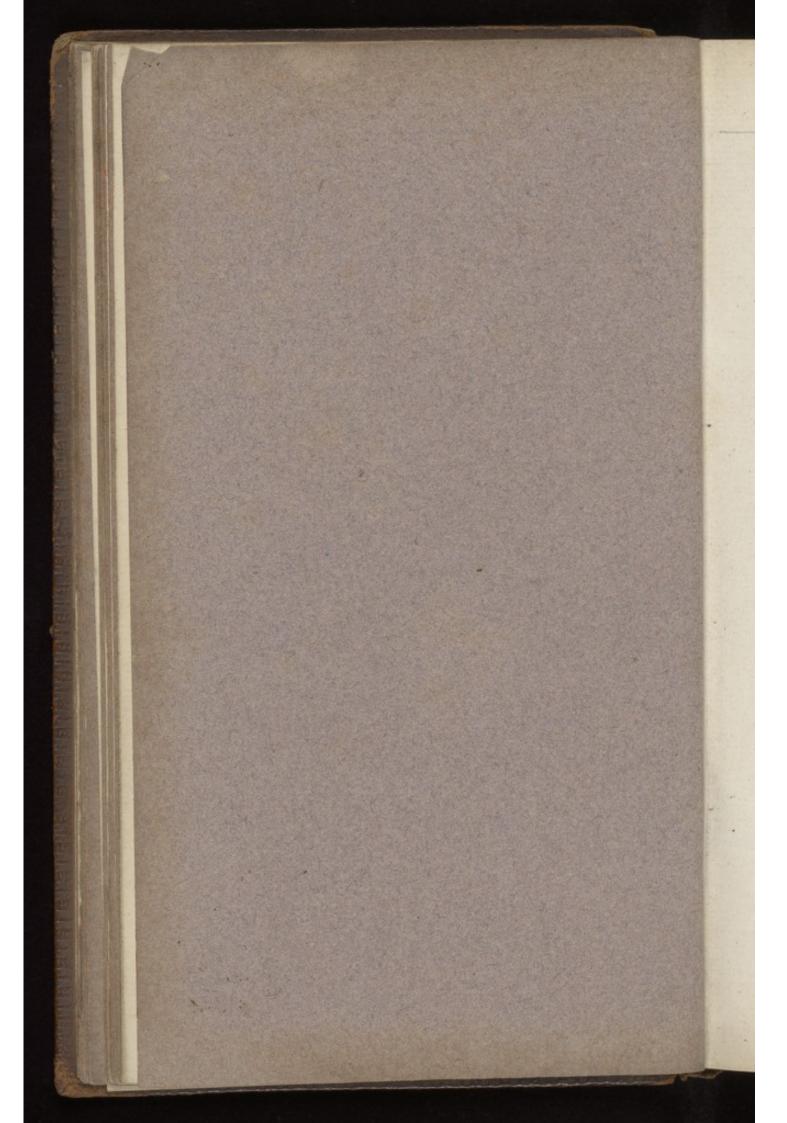




July 9-1802 Tevolution of glass balls and promited wires Charge of the hey den Far principles Haldanes method of charging a ballowy Lawsons electrometer



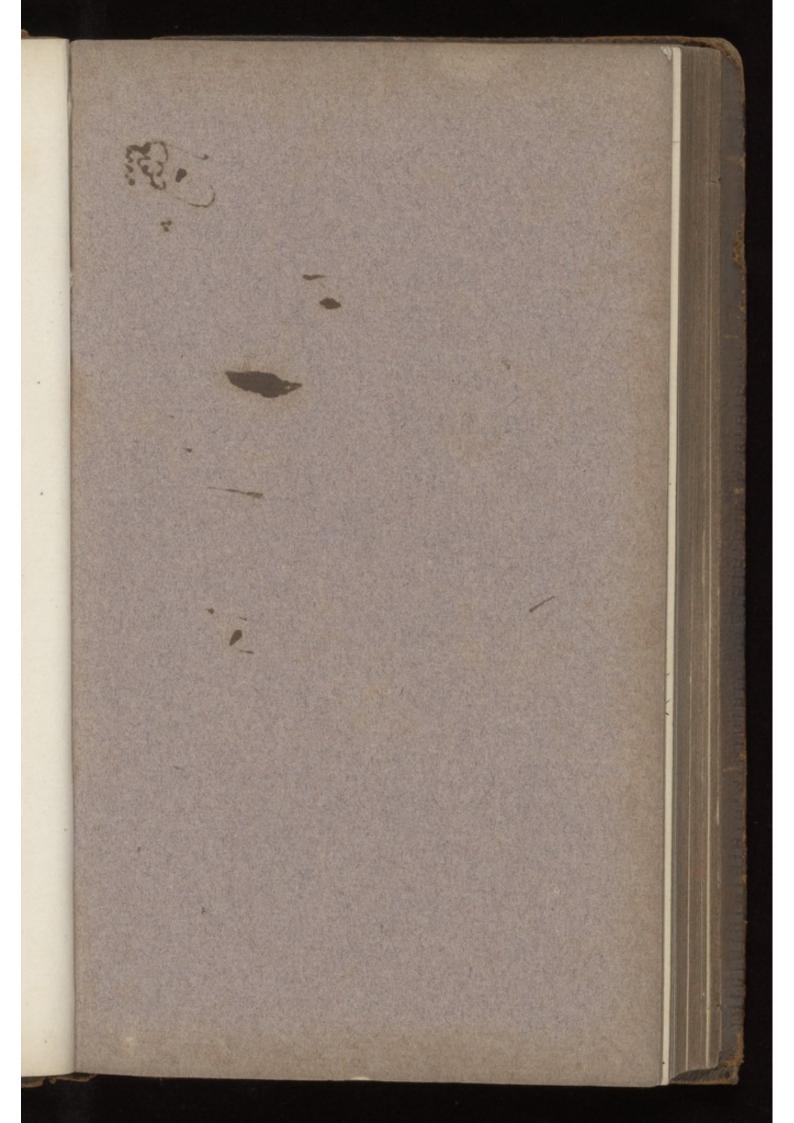


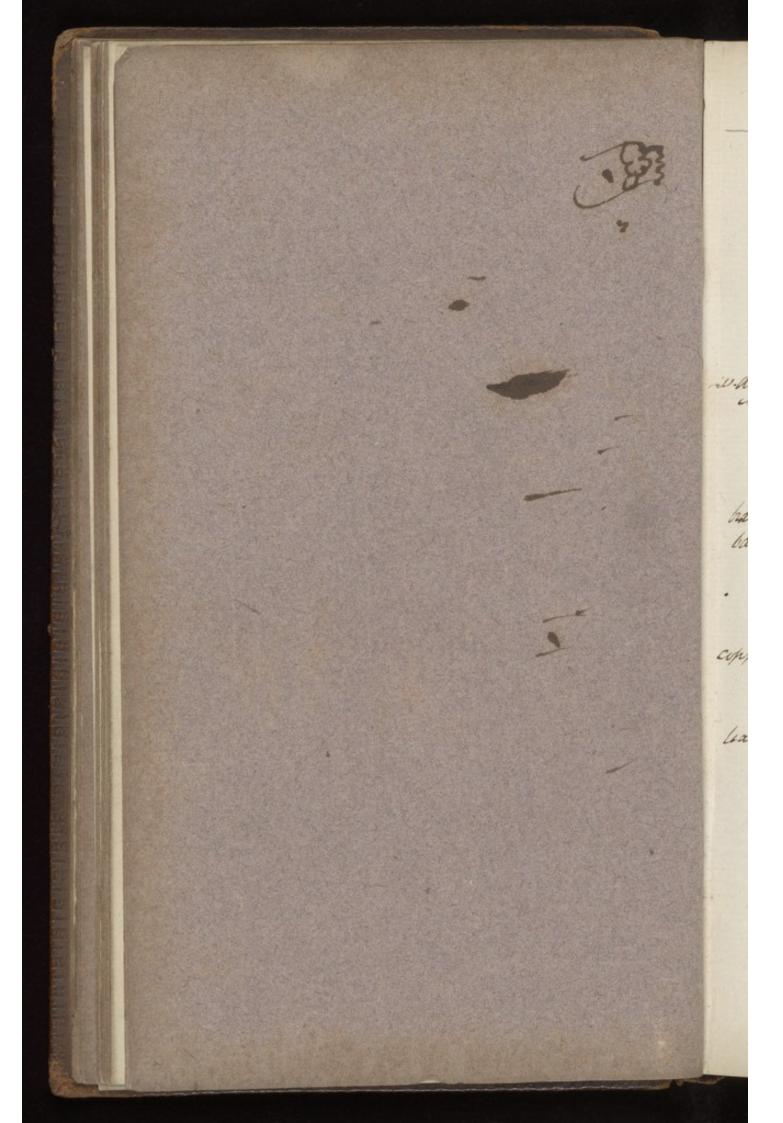


We propose this evening to exhibit to the Society the different States of the two coatings in a Leyden Sheat in the act of changing for some time after the plus dominus Themes had been generally adopted, the outside sinside of a bhiad white changing were confidently dume tobe in different states. i. one me g tone fus. MBrooks an ingenious electrician at Romand Claim the discovery that this was not the case Litwas Some time before Motorguson, Buly tothers were convinued it was not so one circumstance however has escaped his altention of wit appears both curious & unportant which is that when the jar is insulated ocharged whether flegs or neg: by means of a prointed wire in contact with the outside, a pair of cort balls communicating with the inside & another with the outside will both be elect? pos or mig - other whom hair will in both cases birepelled by the outer water, but If the far be not ins - the frain connected with the inside will in both cases be altracted by the auter coating hence the two sides of an ins jar appear while changing tobe in the Same State _ but the two Sides of a far not this while charging in opposite States

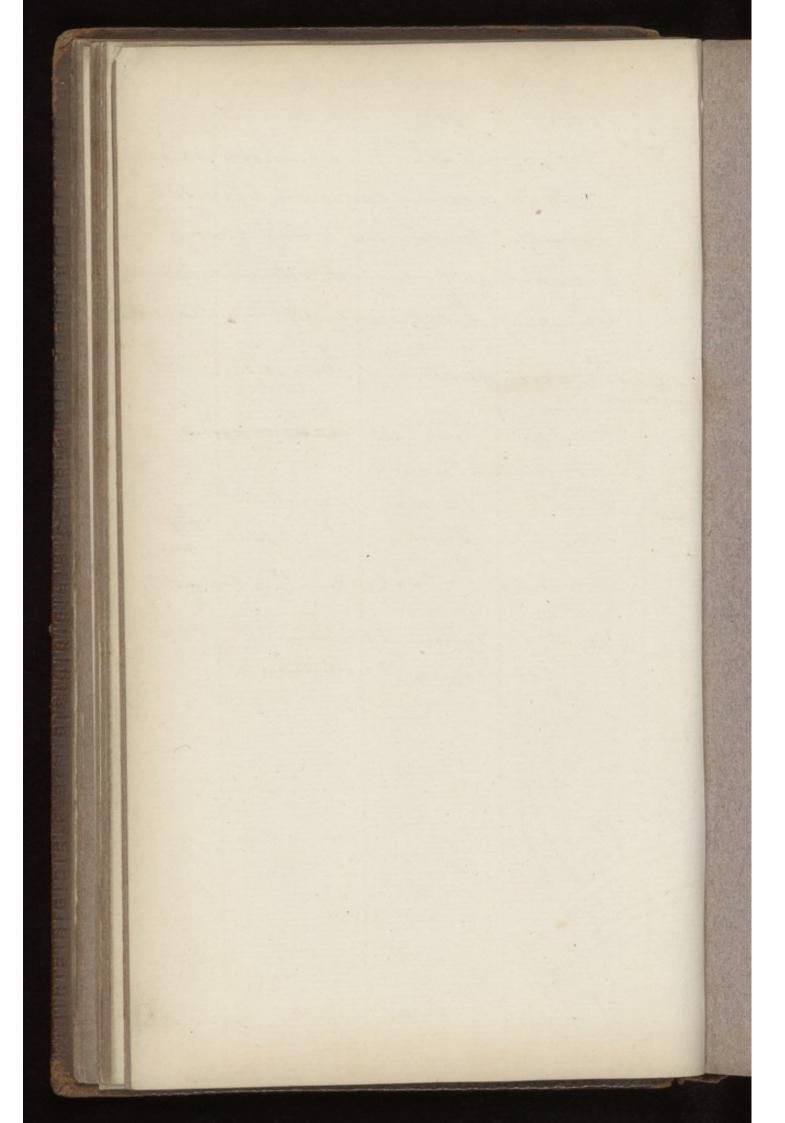
Committee - 1002 3

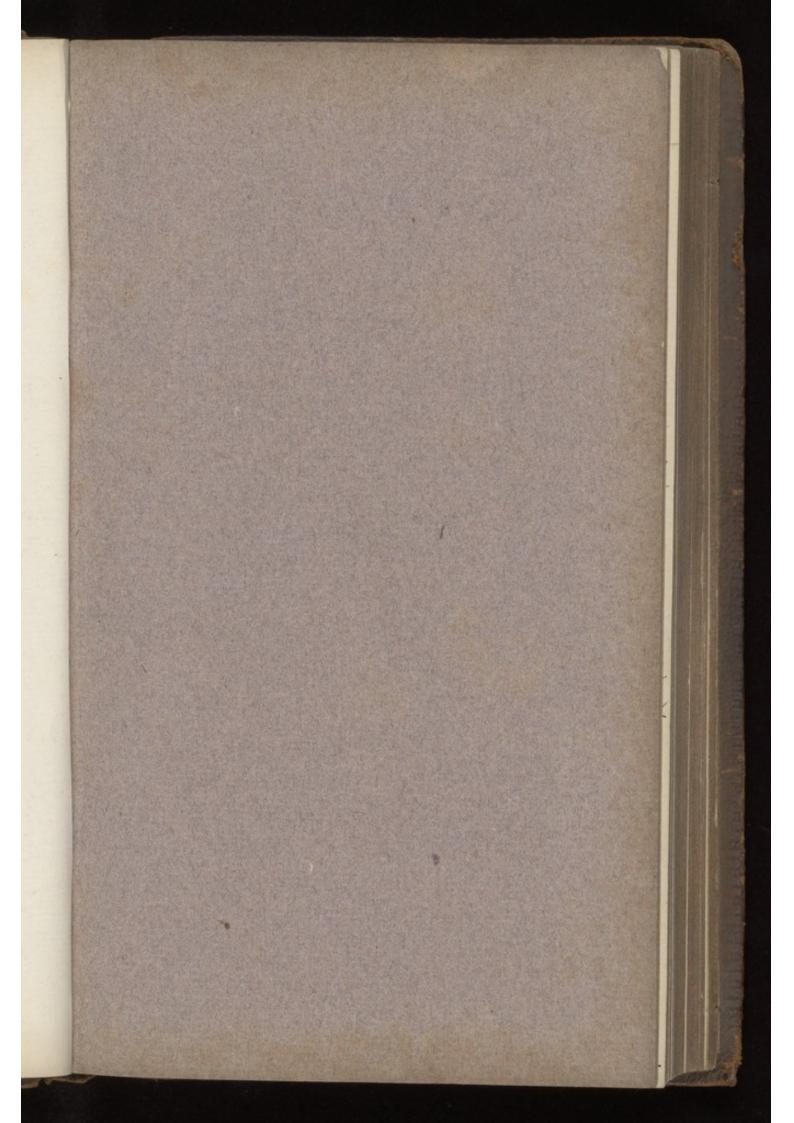
Mr. allen
Askhilups
Samt Woods -

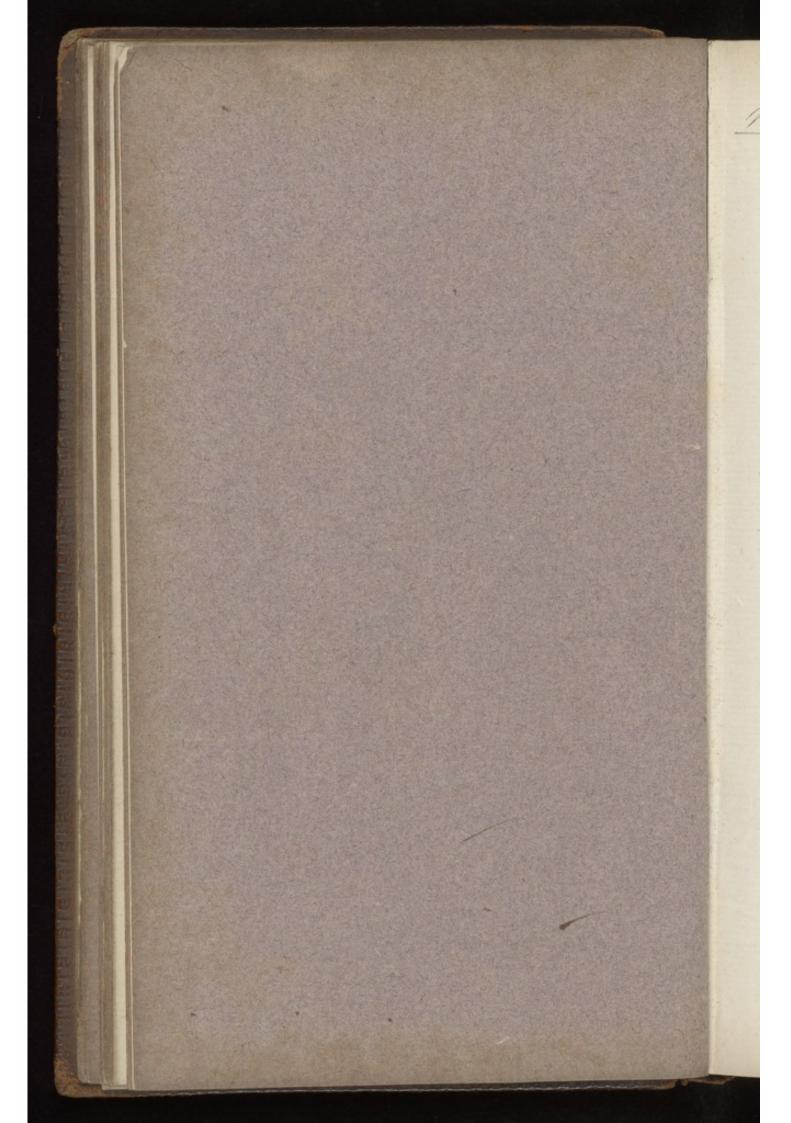




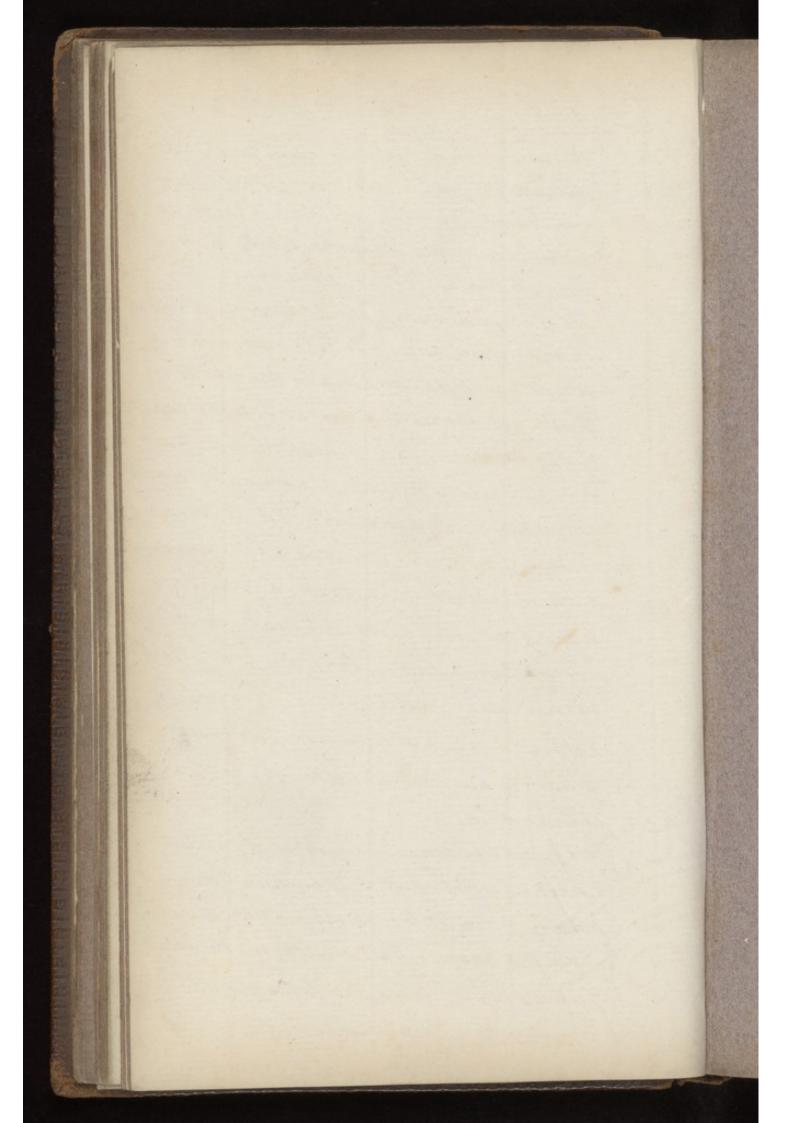
Nov. 4_ 1802 Wepropose to Show this evening the expansion property of caloric owe mean to fruitue this subjut for some succeeding settings intending at the next opportunities boilluster the repangible duflecting properties of caloris walten's Expansion of metals by Jones instruments inshum! Hum. bo - Imin. 110 man cologono one revolution to inch. Hum. 170 - 1/2 min - 1 revolution 0 212 3 min - 125 - total bar of the index _ = so + in + in = 400 of an inch copper & there 75° - 2 min - 1 revolution 2 revolutions lead-

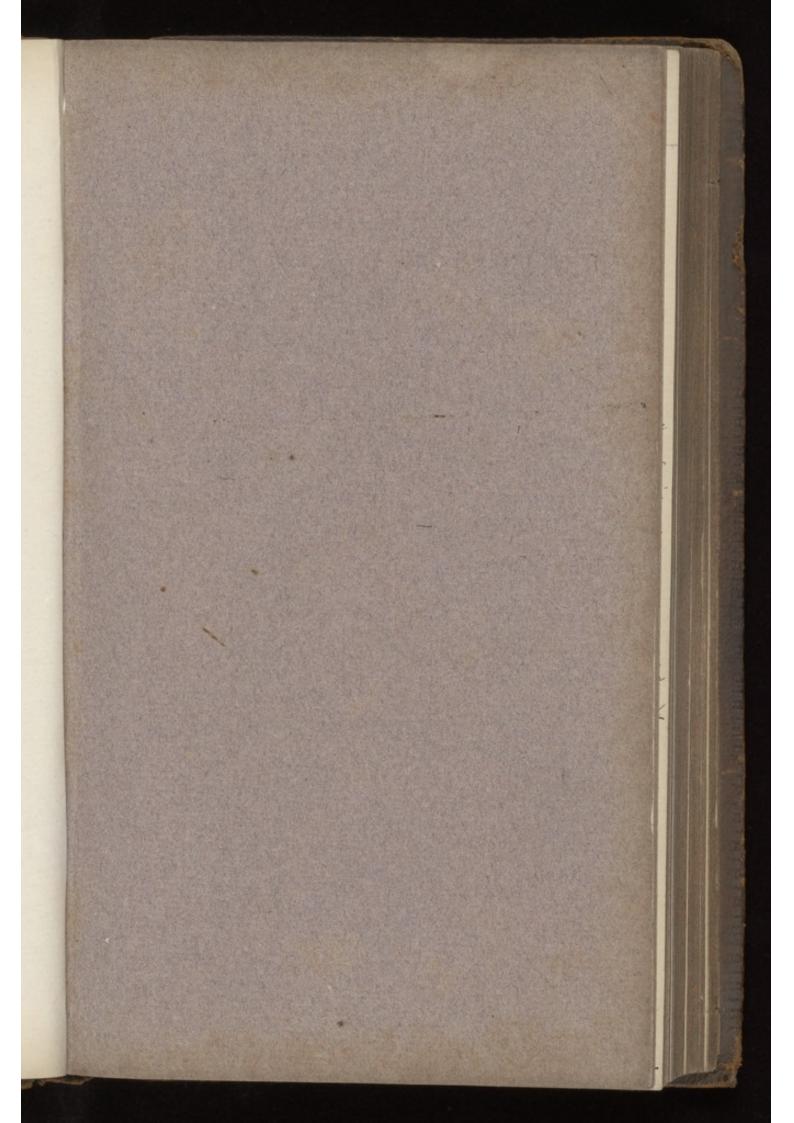


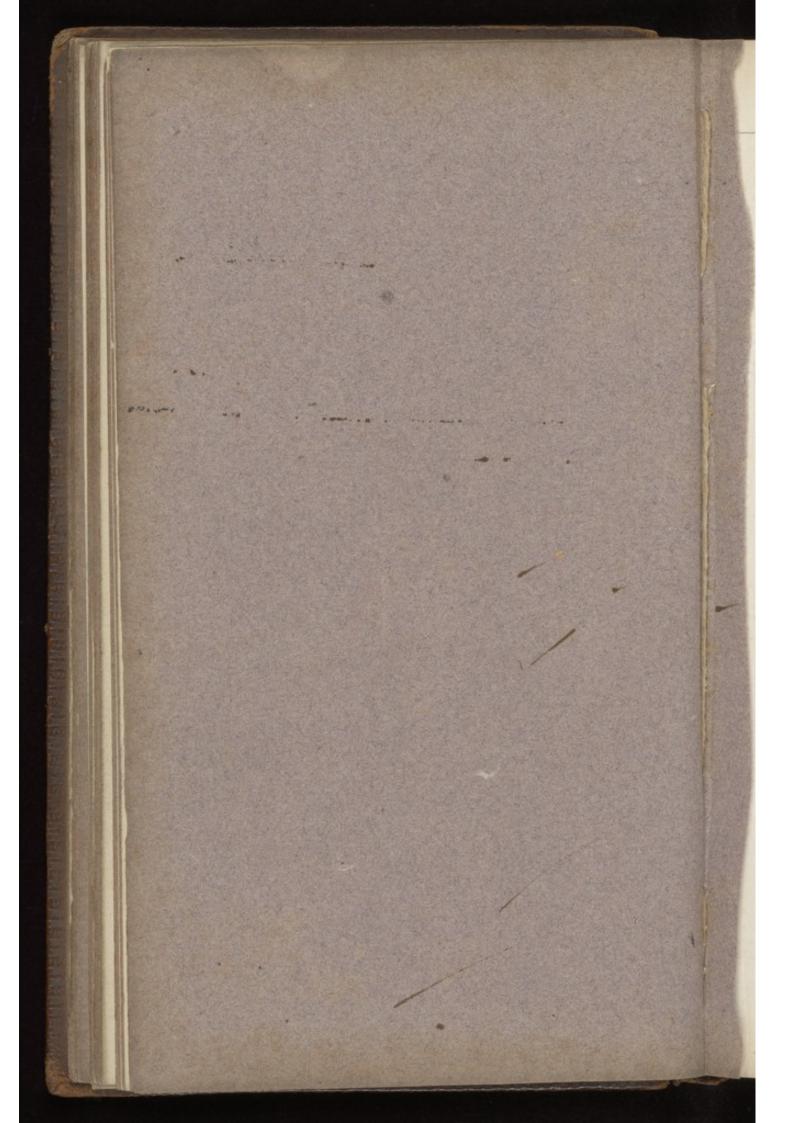




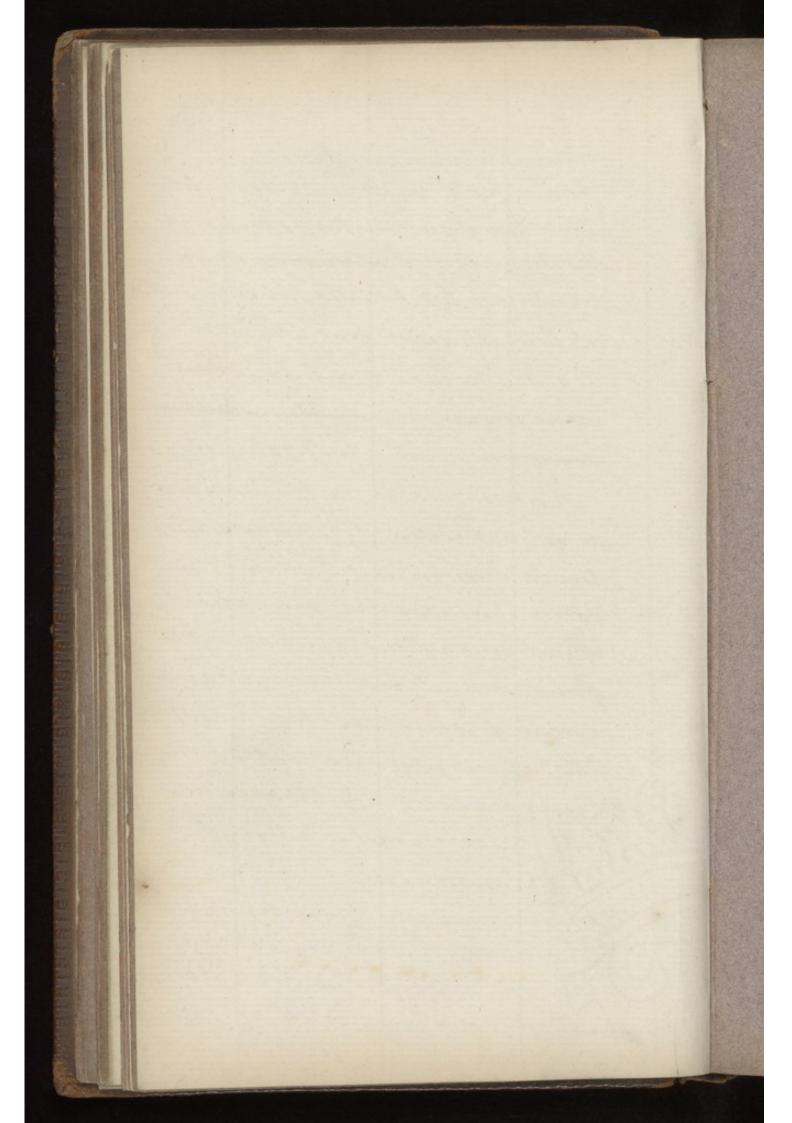
At our last meeting we endeavoured to Electate the expansible property of calone: our present object is to ellershate or rather to hove the existence of another property, we mean its radiant emanationis -The analogy between light theat to conspicuous in many intotances of so different in others might lead to the Supposition the not to the Mesumption that heat as well as light was Subject to catopie laws & might be reflected from the surfaces of bodies - a strong light may be produced independently of heat for example therays of the moon collected at the focus of a concave mino + no wason à privie can beassigned why invisible heat may not diverged from a heated body in radiating emanations funding this idea Mittet contrived a series of experiments similar Tothase we are now about tooffer to your Camination We place two concave mirrors of tenned Copper well polished & 30 inches in diam precesely parallel to each other at the distance of sie feet having hist ascertained the focus of reflected light pursuant to the general laws of reflection - chaving provided an air

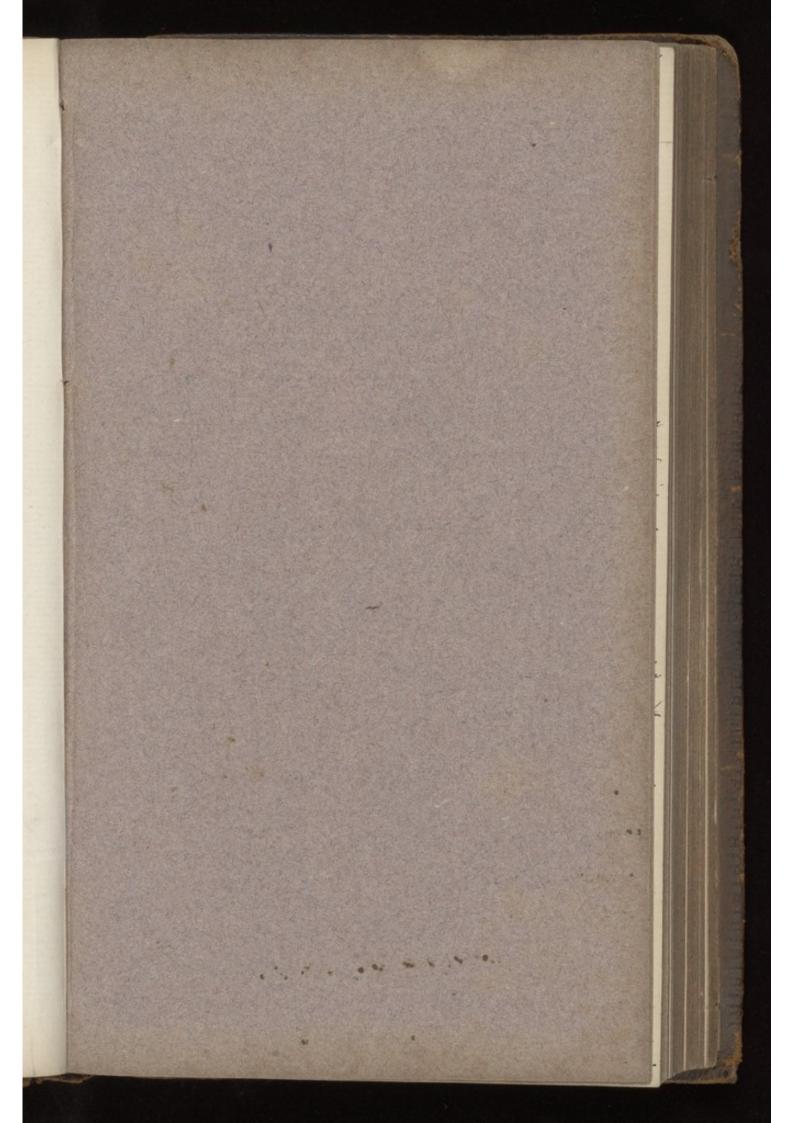


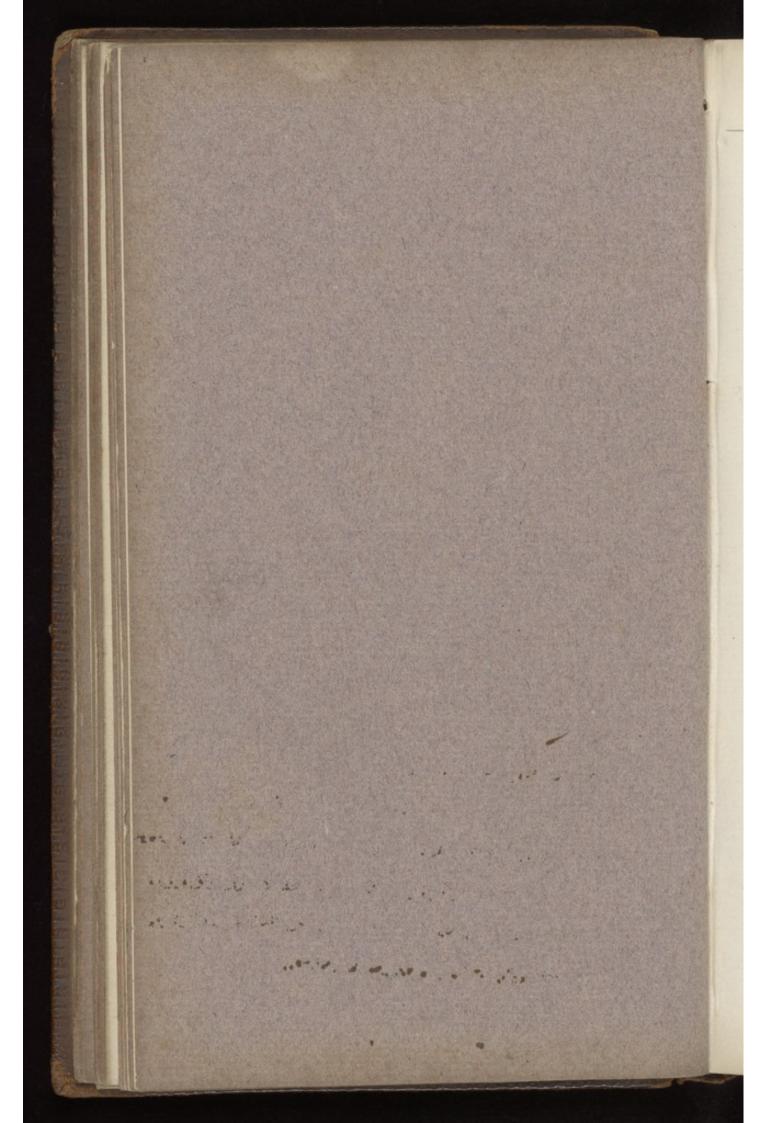




thermometer, which has the advantage over a muratial one of much greater densibility in the focus of one these specula we place this Theremometer & interfering a serion we place an iron bellet heated not sufficiently Abe luminous in the focus of the other the apparatus being thus disposed & 100 motion sendelle in the there we shall remove the sound you will immediately prescive a considerable rise in the Thermometer when as the billet cools will gradually subside from the abovementioned position of the mirrors it is evident that any radiant reflexible emanations excited at the focus of one minor, will be sent-back, in hartas a bundle of parallel rays from the surface of that mirror upon the opposite mirror Lagain by a Second reflection & collected at-the focus of the last in a degree of density not otherwise attainable -In order to obreate any objection arising from the uncertainty whether the bullet the perfectly Ascure to our view might not emit-light dis. -cumble by or gans more accurate than olirs



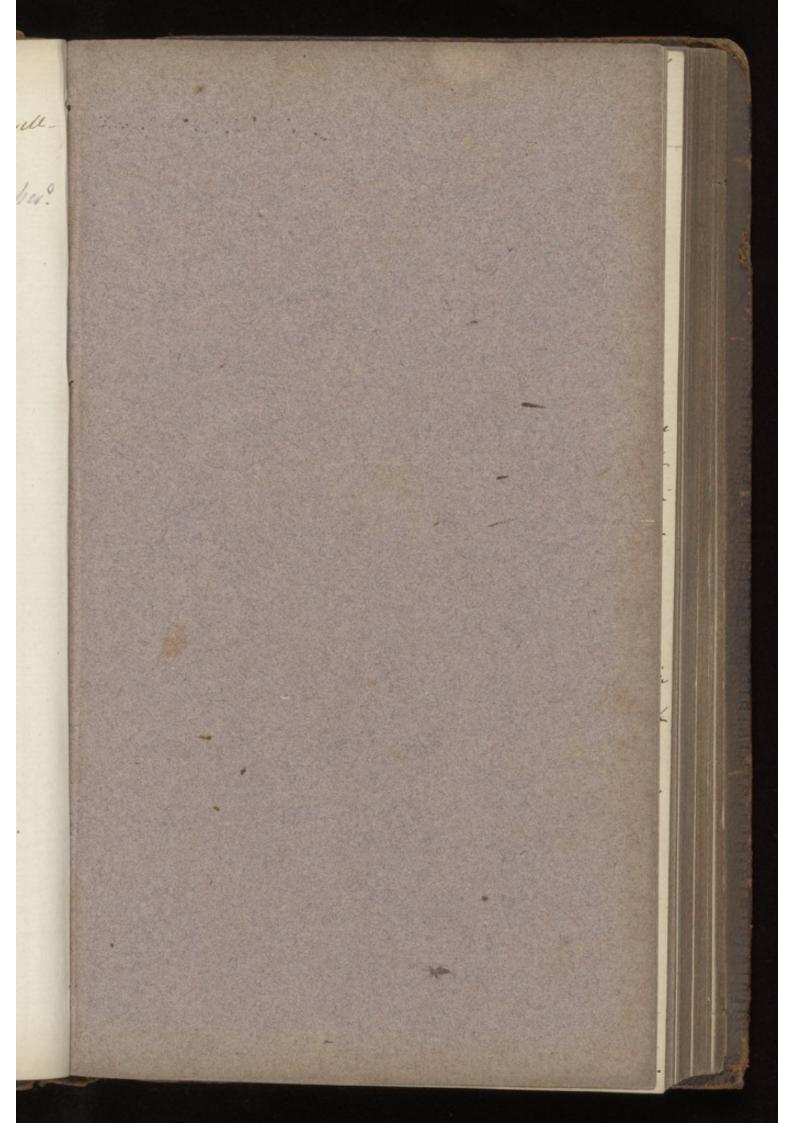


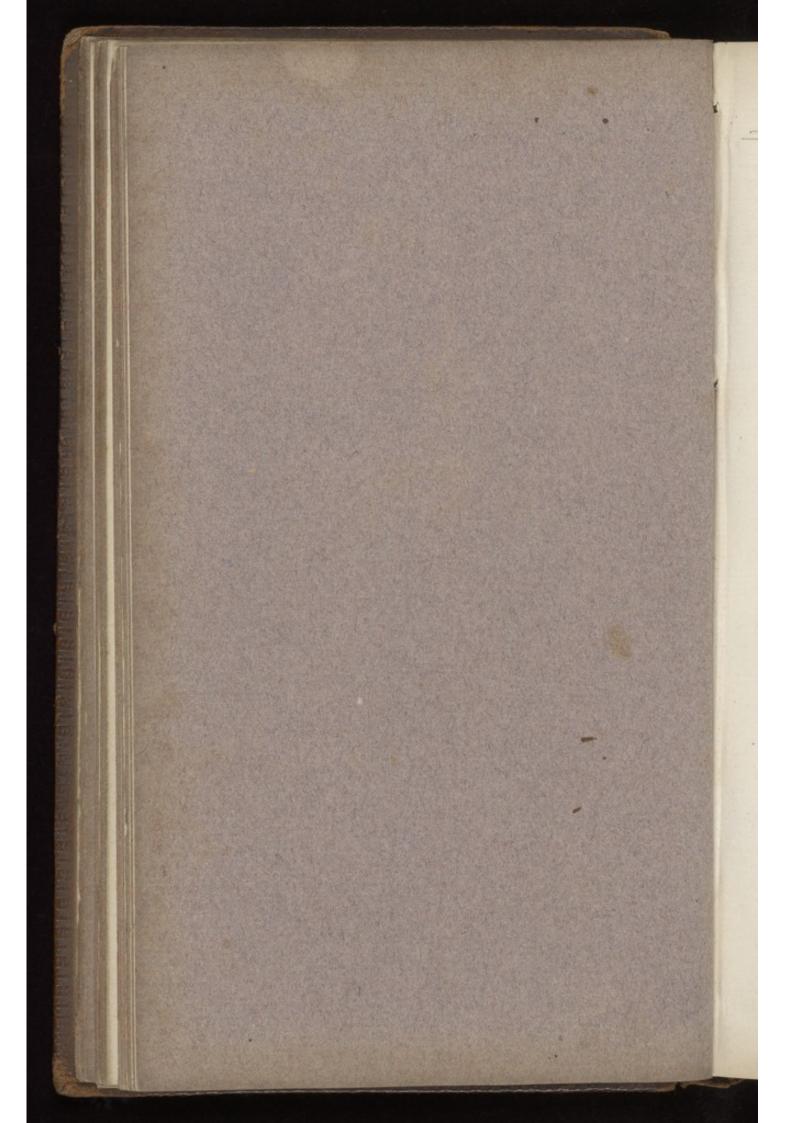


we shall now exhibit the action of a Hask of Toiling water placed in the same circumstance From will perceive that the effects are precisely Similar Weshall near evince the existence of this Condensation of caloufic rays by it action on inflammable substances - We place a piece of phosphous in the place of the thermometer syou will perceive it tobe ignited in the next experiment we shall have recourse to an agent somewhat more howerful: resmall hadier of ignited charcoal will be Substituted for the iron shot & in the opposit focus we shall place a few grains of gun - powder which will be found to explode Practice por the House to the the said to the Al La Rikarda Da Da Da Da Da Reco ADD COOLEGE LOGE DI DI DI CONICHE SI DISTANTO Aproping chip Decop Ala Dans Que Brago good a of a contraction Degrapping to be the Explosing. these experiment we conceive will be suffictotalisty the society respecting the existence of tadiating catorific emanutions

The attempt this evening did not succeed will. gu. if this does not refer to the Exper?

of the rest sheeting?

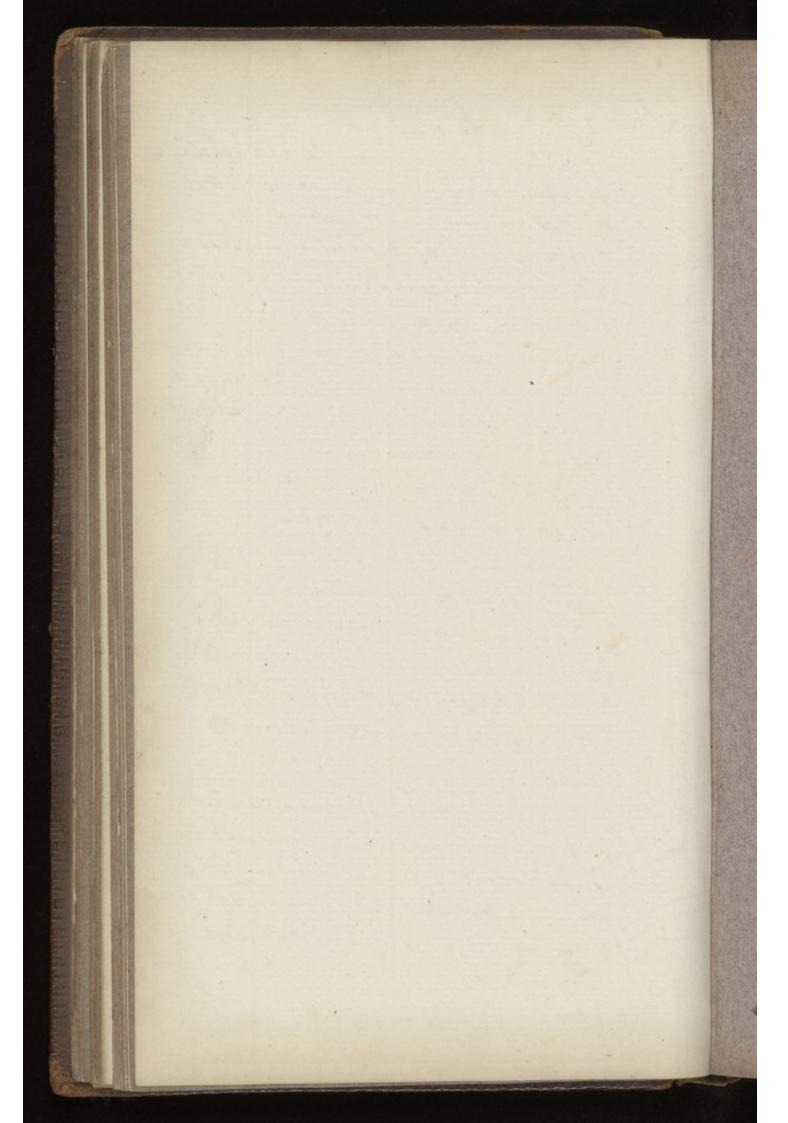


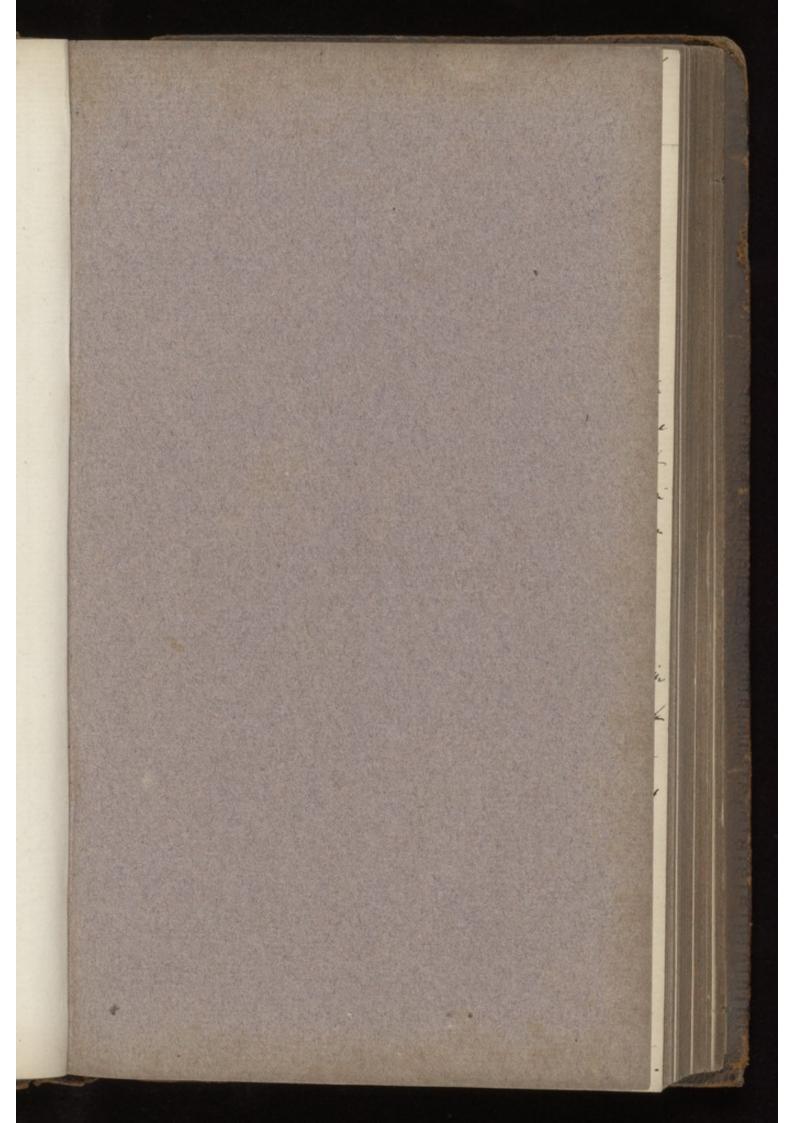


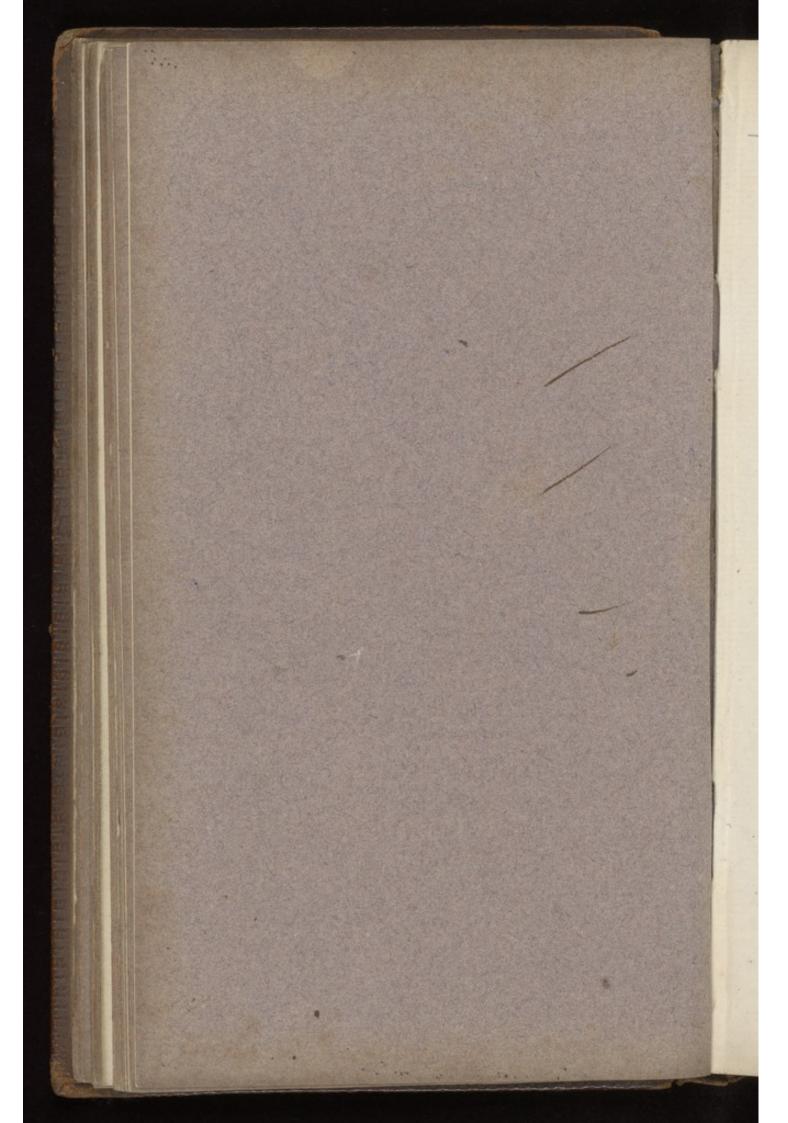
Dec 2.1802

At our last meeting we officed such experiments is we duried conclusive proofs that calorie is limited from bodies in the form of radiant Conanations: Mystelland in a conversation with Mi Pictet Suggested whether cold was Susceptible of reflection! Mit cott confidently Teplied no; that cold was anciely the prevation ofheat of that a negative could not be reflected they however determined to try of the result ofthat heat we mean to repeat whom thefredent occasion: we shall dispose the apparatus as before; placing at one focus an air thum. at the other a fenzing misture which will very Londibly affect the thurn before we proceed to investigate the cause of. this phenomenon it will be proper to satisfy the Society of the reality of the fact after which we shall offer what appears to us to be the here Solution

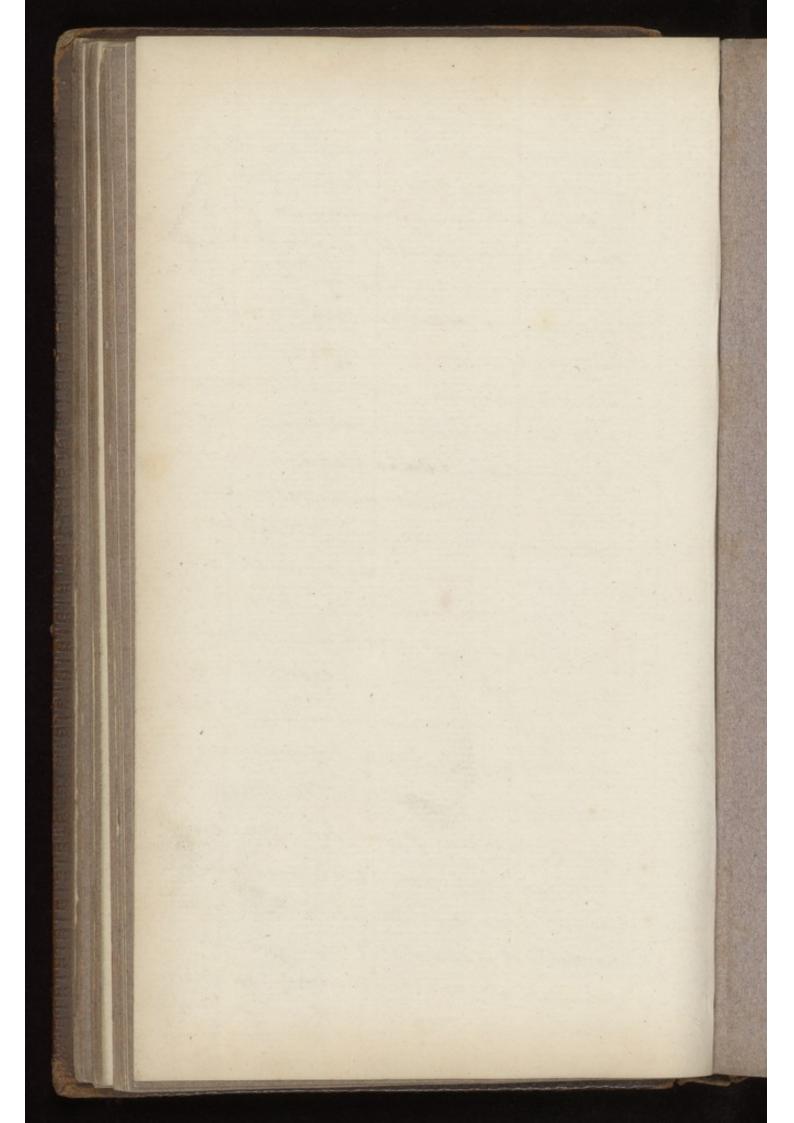
We must recollect that heat I cold are terms merely Telateric & that in the instance before us the therm having the temps of the room must with regard to the puring smusture be considered a heated body: if these todies be pland contiguous, the general law of diffusion before was an equable temperature, with modern a current of calorice from the warmer bothe today & induced from all warmer bodies to the

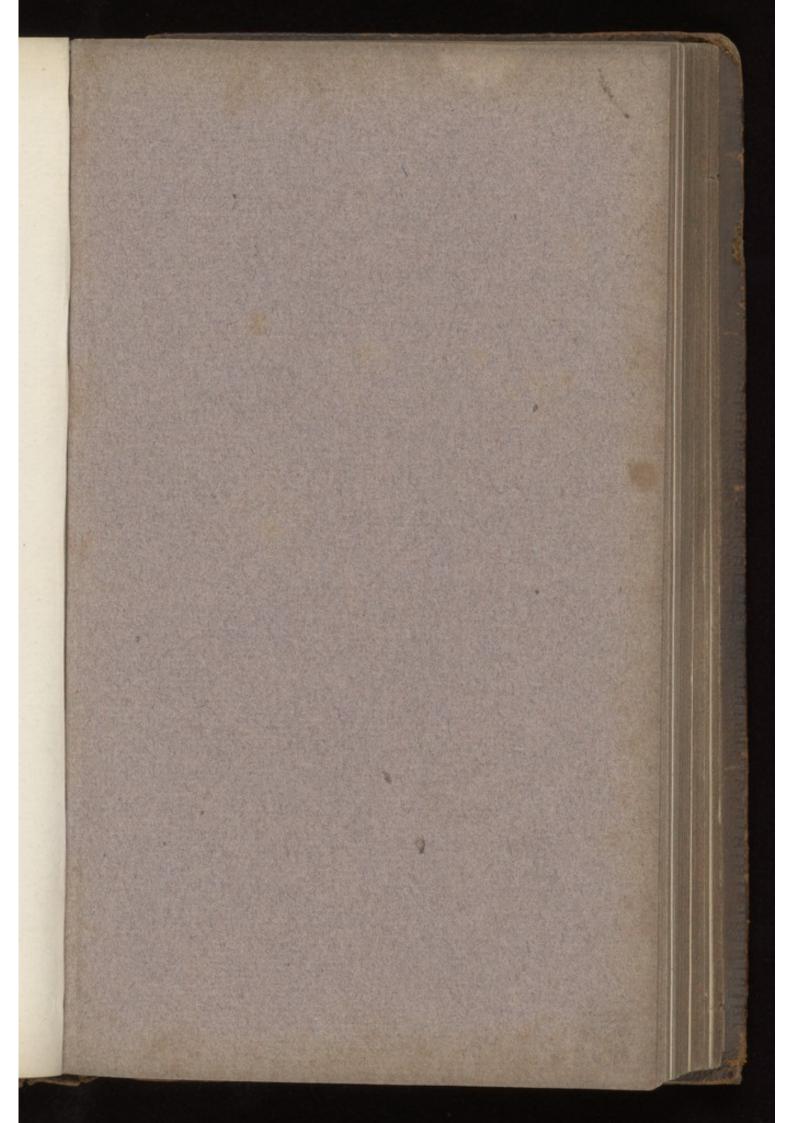


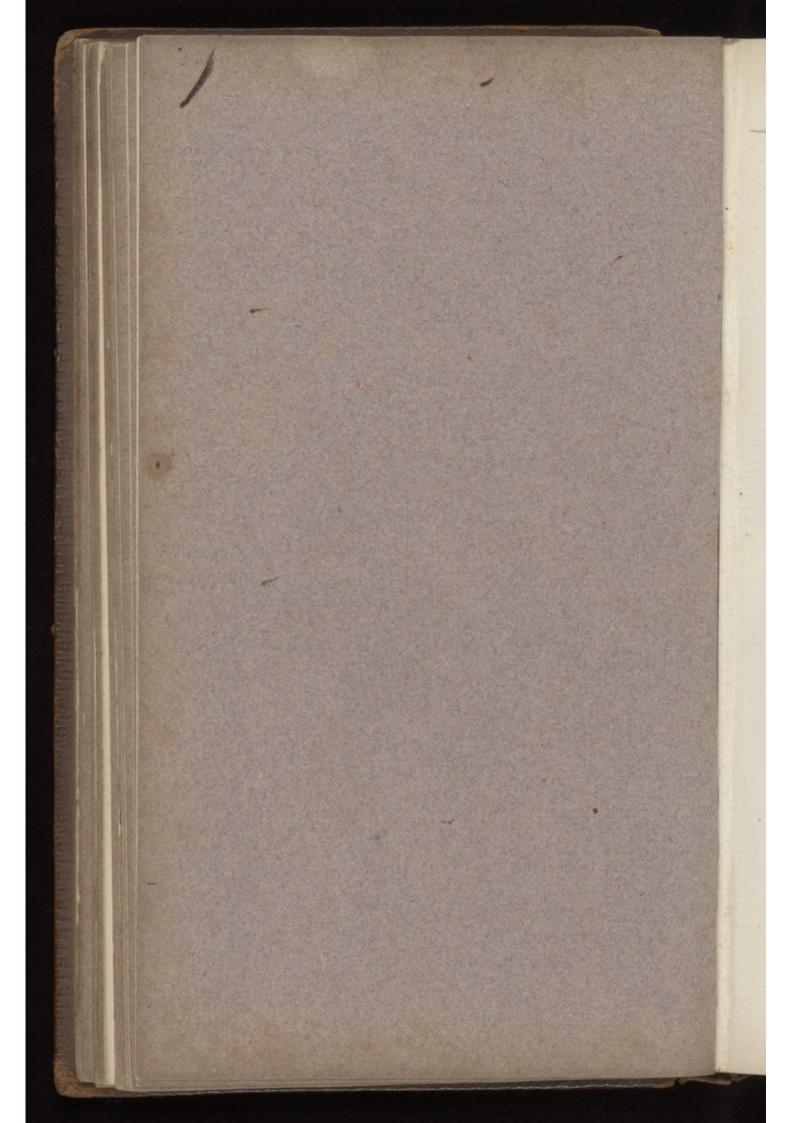




one cooler body till the latter has obtain a suffice Supply of calorie to restone the equilibrium the influence of the puzzing mixture therefore is to Solicit a supply from allifodies in it is circly Schufly from that side exposed to the cold body. this is it direct Attor to which the thurin is exposed in common with other bodies: het us now consider the effect of the disposition before us; the paying mixture solicit a large Supply of calone + tooks placed in the focus of a mirror which mirror for the sake of illustration we may imagine to consist of 1000 diff points from each of which a caloup i ray emanates to the focus - these 1000 points being opposite to 1000 other points disposed also to emanaterays & to supply them in paralul ligges : demand this Suprey from a common point viz the focus of where the therm is situate & of course afford, the almost facility to the calorie in the therm. Topass off in a multitude of channels all centuring in the Same pointres the focus where the peoping mixture is placed dwhere the calore is rapidly absorbed _ it is evident that this disposition is admirably adapted to the abstraction & handsnissin of calorie from the therm. I will be conceive not only existena of radiant caloupi emarations



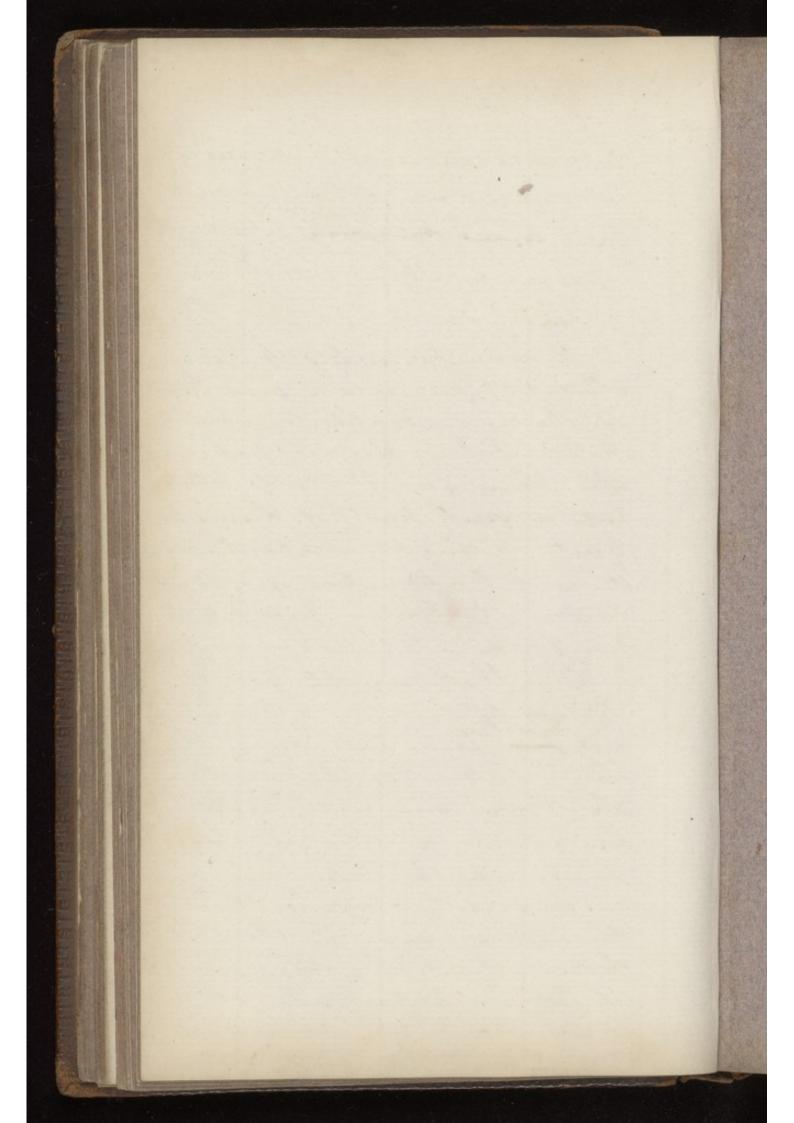


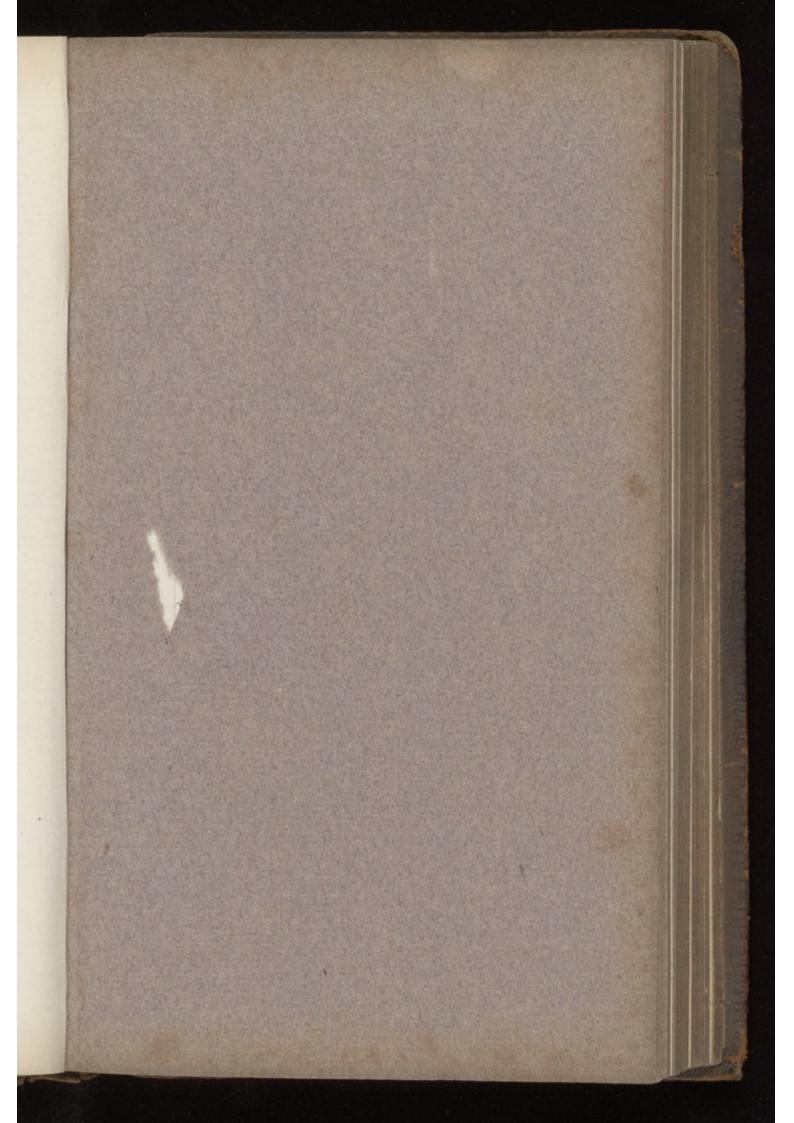


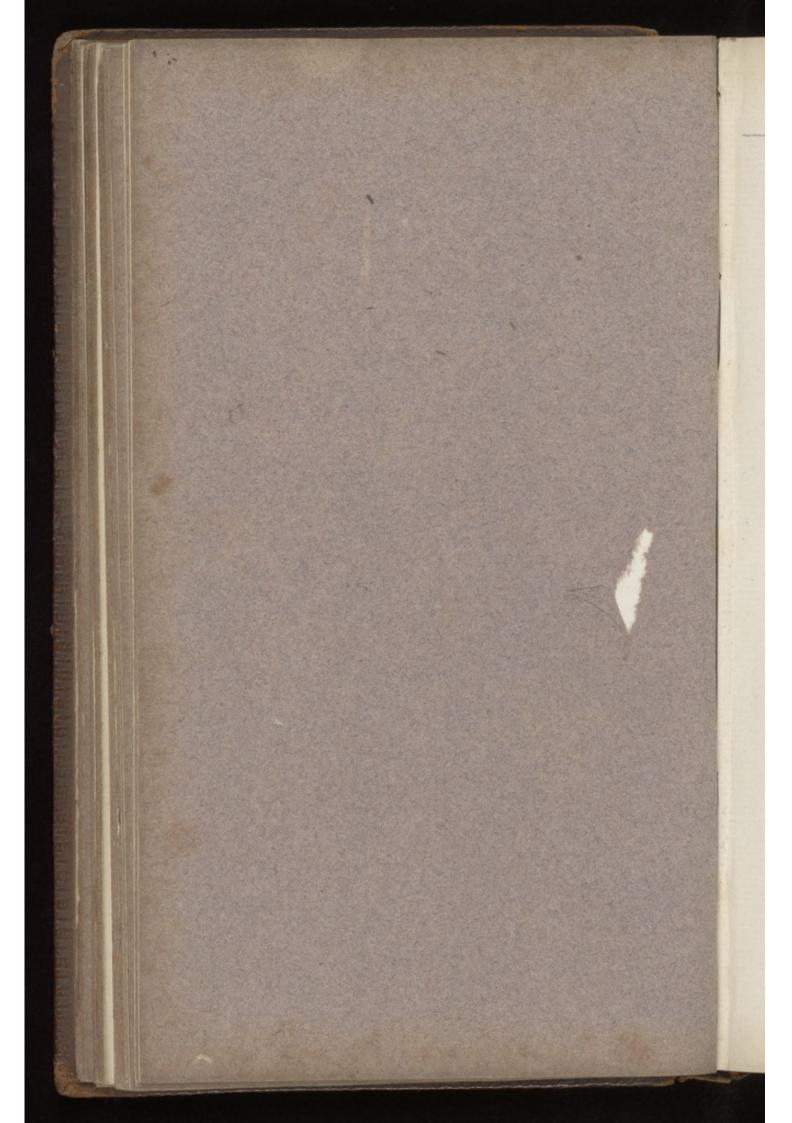
Dec. 7 1803 Capton the mutual decomposition of mitric acid & alcohol mixed in a retort with the shirt lamp the decemps: of Sulphunic acid by the operation of. the gases produced. 2 ounce Mitric And Sp. mar: about 1,37 put into a pint Petert the Receiver adapted to which had a Pepe annixed paping this Inow and Water to return into it such frunt of higuid pro Dut as might escape through it. - A Continuation of said pipe carried the Ganons products thro two Bottles cent of I common Water 2 hime Water into the Jans of a Onumater Cistem. A mare July introduced this the Subulence of the Retort and the Notre and gently heated a few grains of Aleshol wine porned into the dule and by unmed intely stopping the end the effer wereene in the Jule Gorced its contents ento the Aus

Jucieper portions were thus

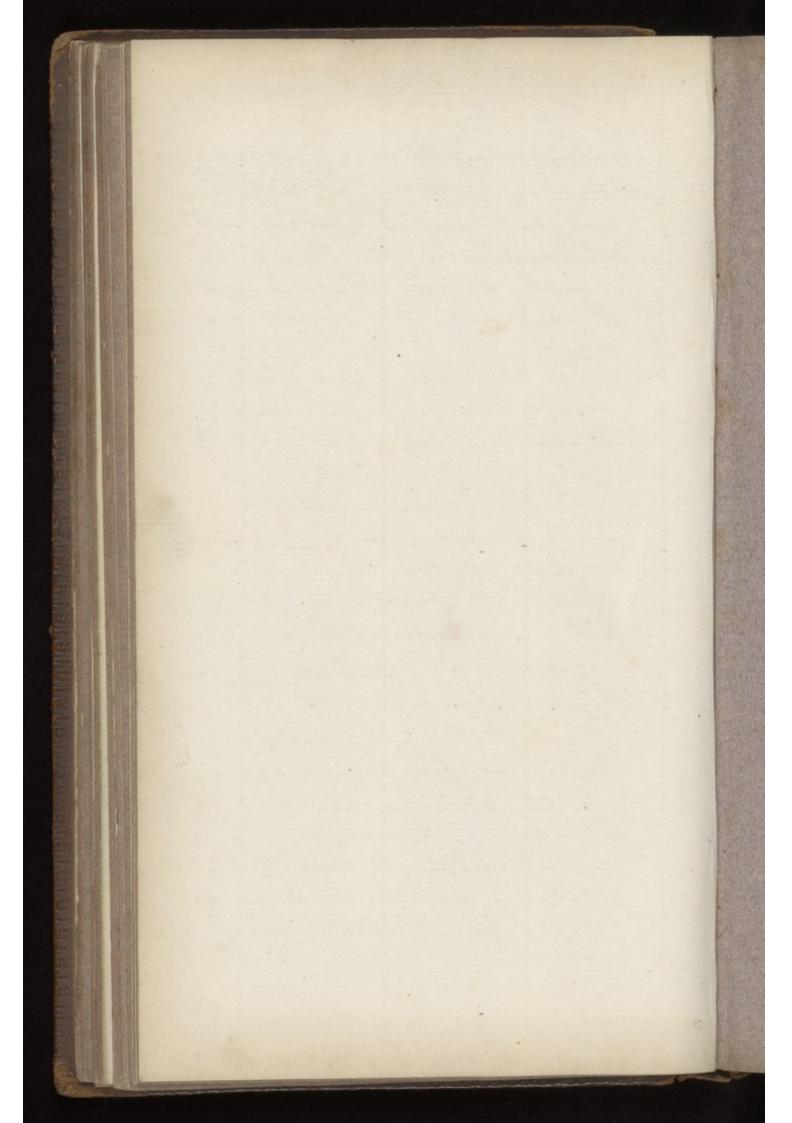
thrown in to the amount of

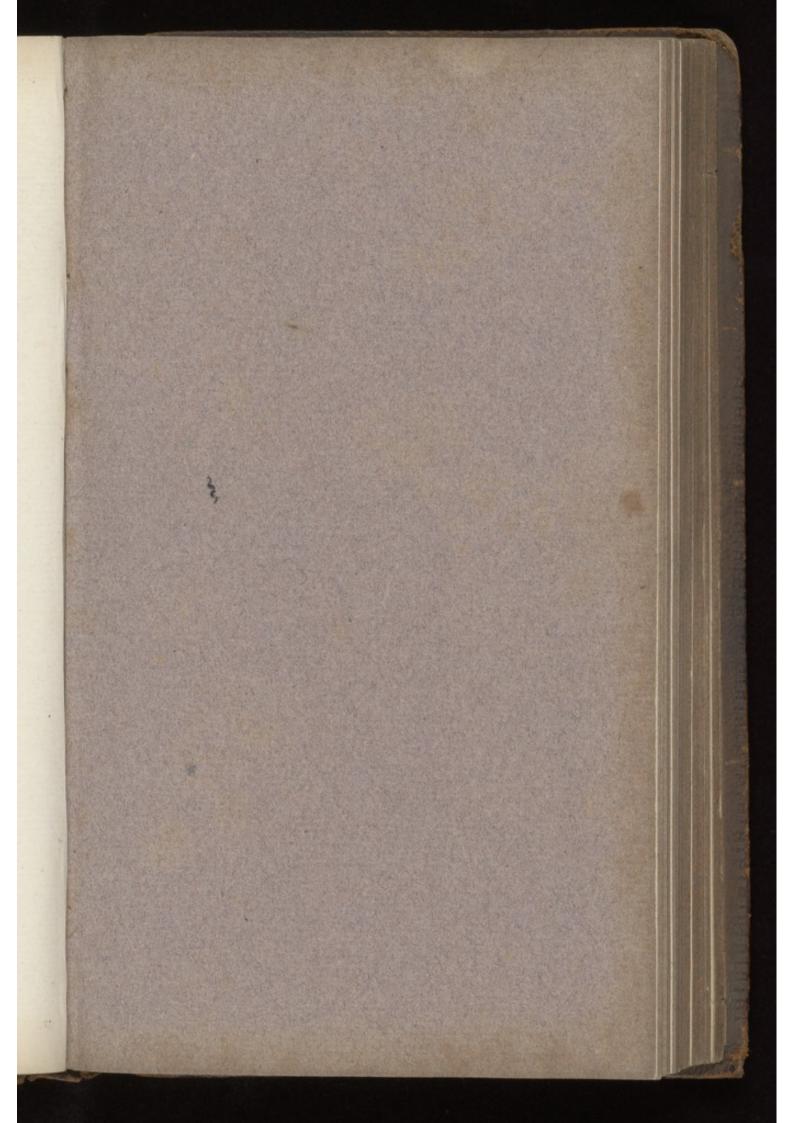


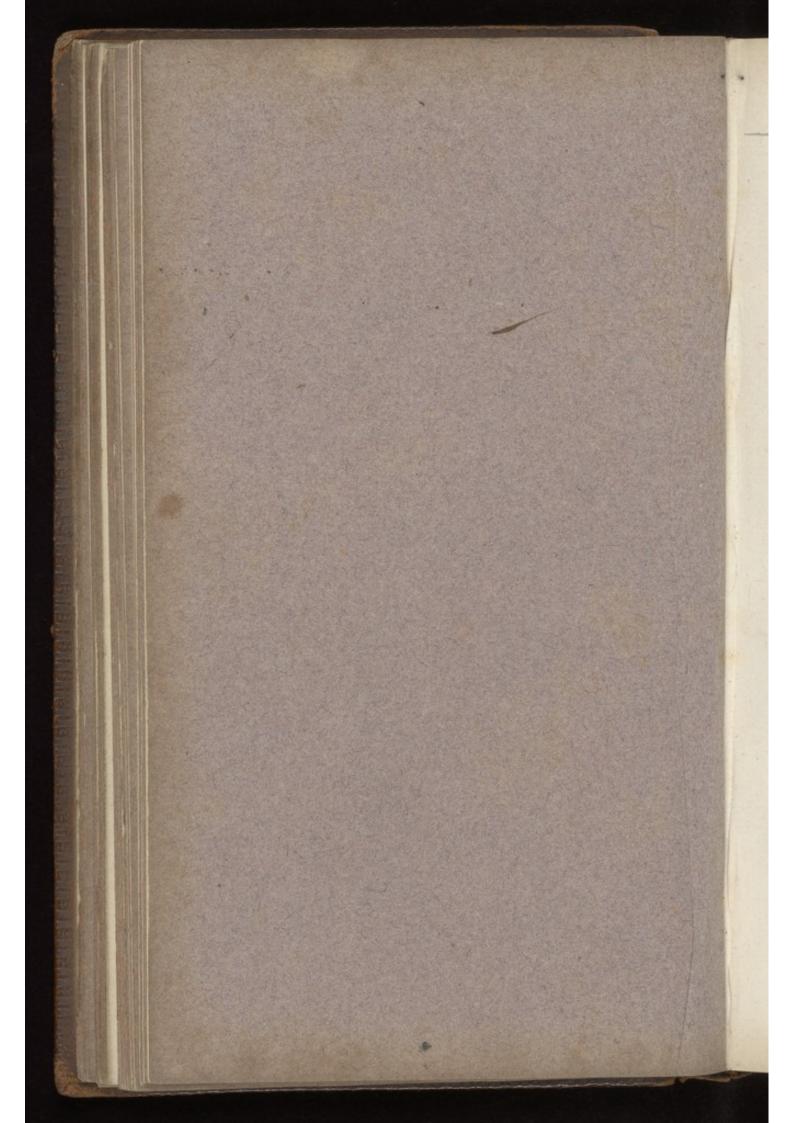




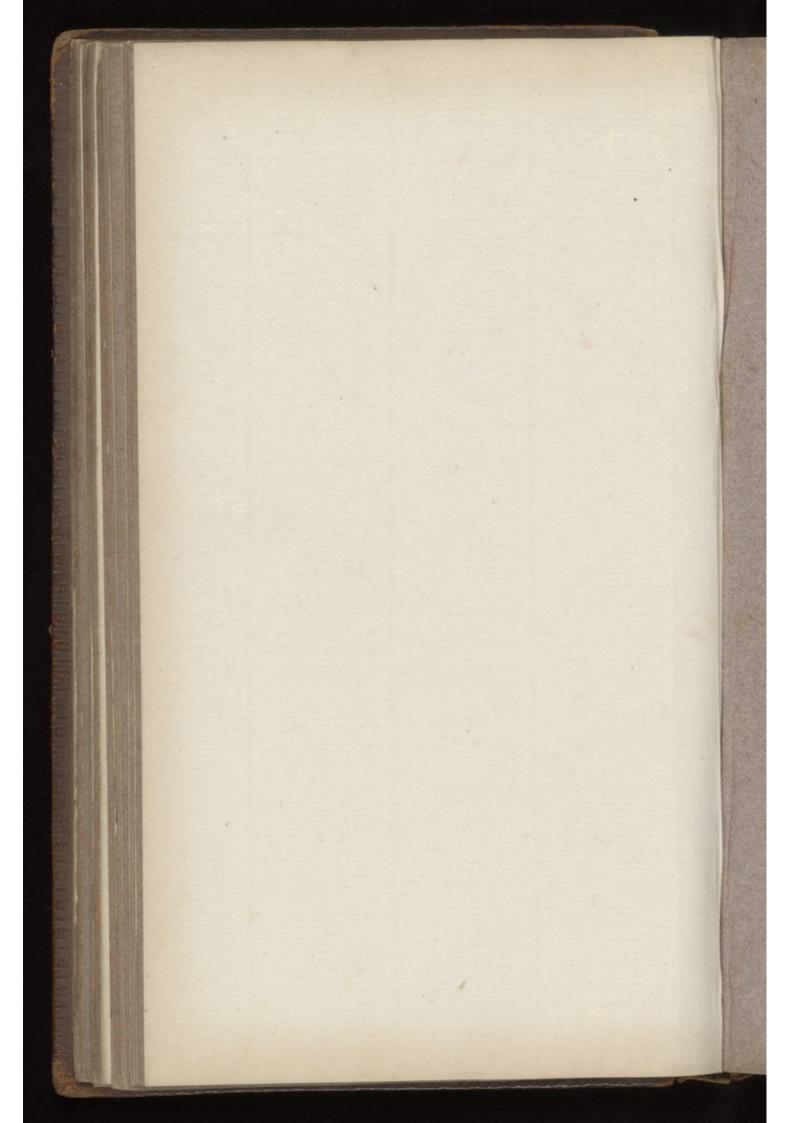
about One Gune, each addition causing a strong offer vercence and pussage of gases: at last the Liginor in the Retort boiled quietly by the Spirit Lamp. & the extrination of Gures much In the Retort was left a small mantity of andulous Water empreyn ater with the Guses. In the Receiver about Brig an inflammable higher cont & a little Mitrie and and in which the smell of Acetors Ether predominates Bottle No 1. andulous and Mighly charged with gases. Bott no 2. A plentiful Separation of Carbonate of hime In the Oneum atic bistem a Mixture of Gures among which were detected Metrons Bus, Jusque Oxede of Carbon and Barbonic Acid Sus. Ry Mitrous Exyd?

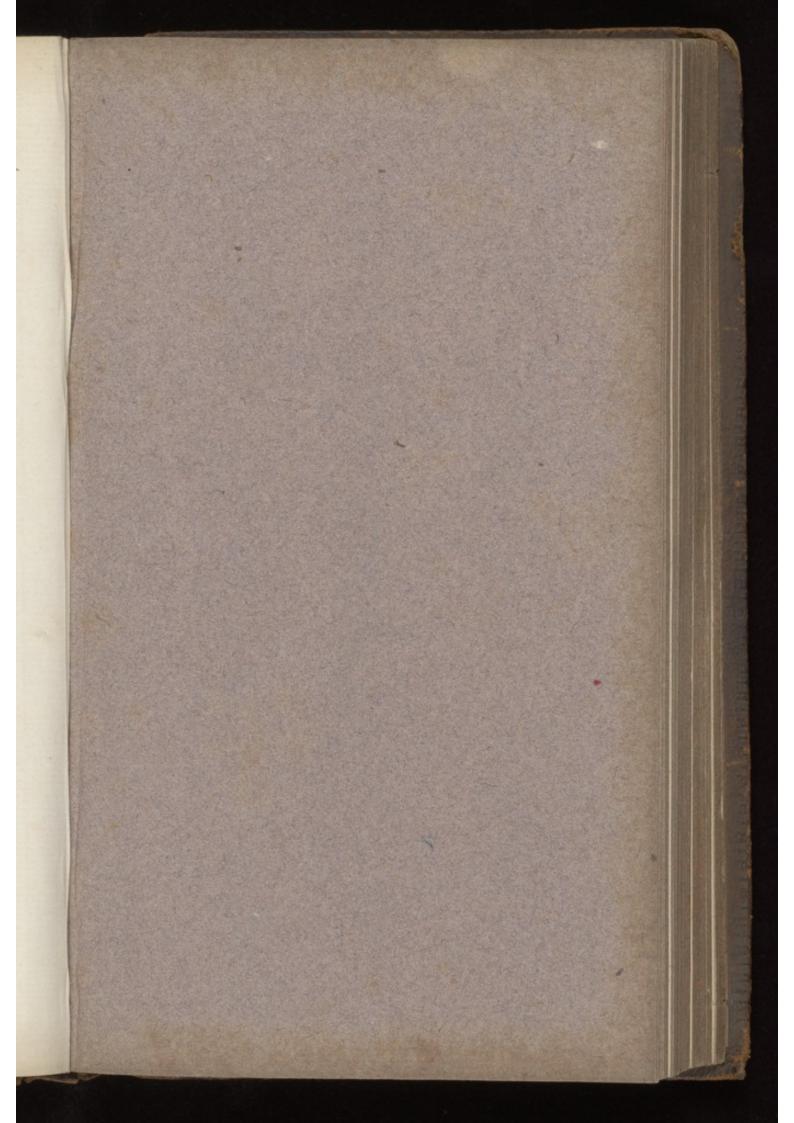


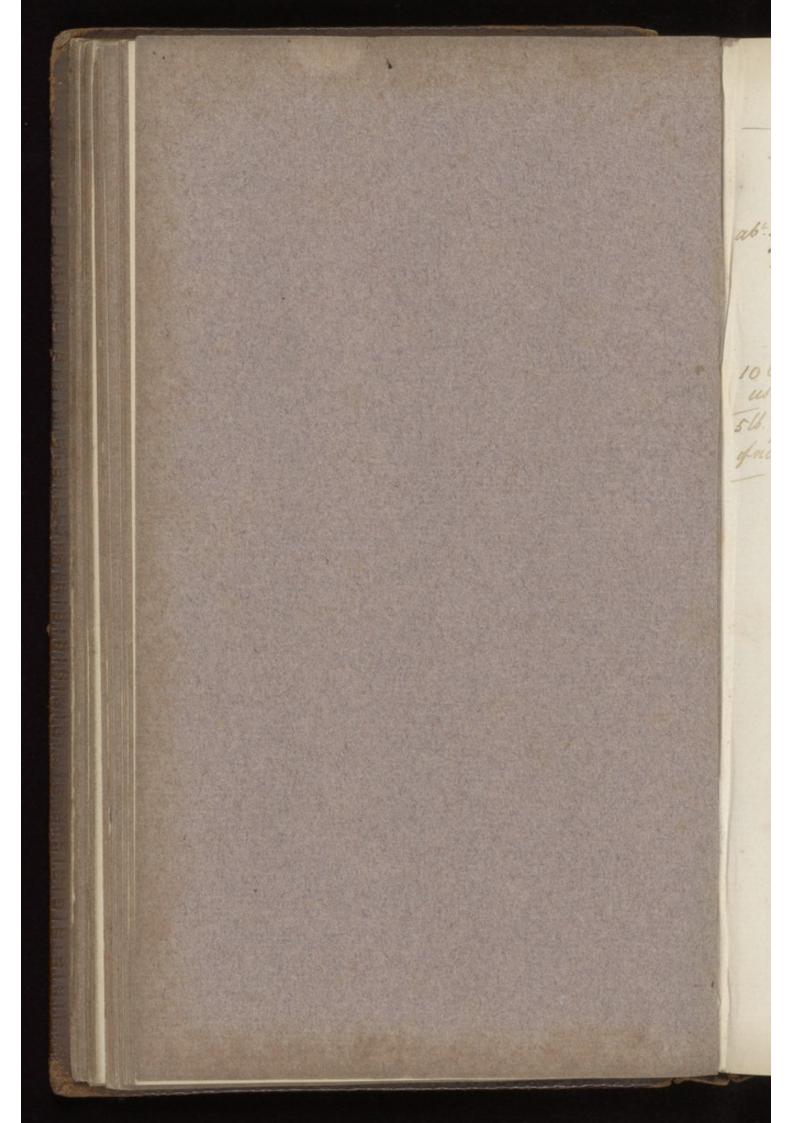




Dec. 22 1803.







March 15 1806 2 Groughs of each 36 Plates of Copper & Line were charged with a Solution of Detate Nitio and Ito 56. hywigh Hater - To the one frimcació à Small a gute cup contain mg distitled water was added - to the other a flas Vessel with dis Mater - Platine Mireas 18: 2 Charges 19 2 Changes 26 2 Charges

Upon examining the State of the experiments this 20 day of March theresuch appear to be as follows the pertion of water in the agate cup in quantity abt 3 i was divided into two parts, one of which was subjuted to the action of nichat of Silver and a slight but evident opalescence was produced: het it is to be observed that the process was not carried on in a close Misel the water in the glass vissel was in like manner diride & sapos to to the Same took het without the least apparent effect. The process in the latter case was len exposed to the action of the atmosphere

at the next night of meeting

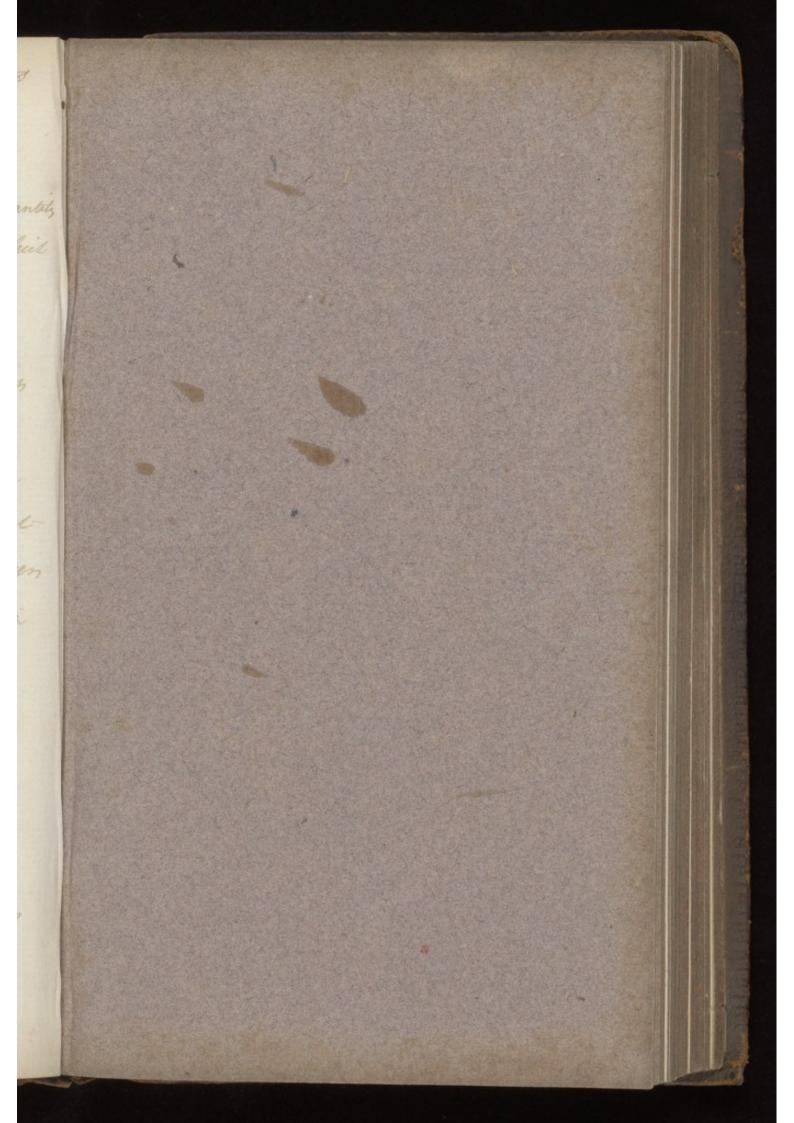
the expt of decomposition by galvanism, with

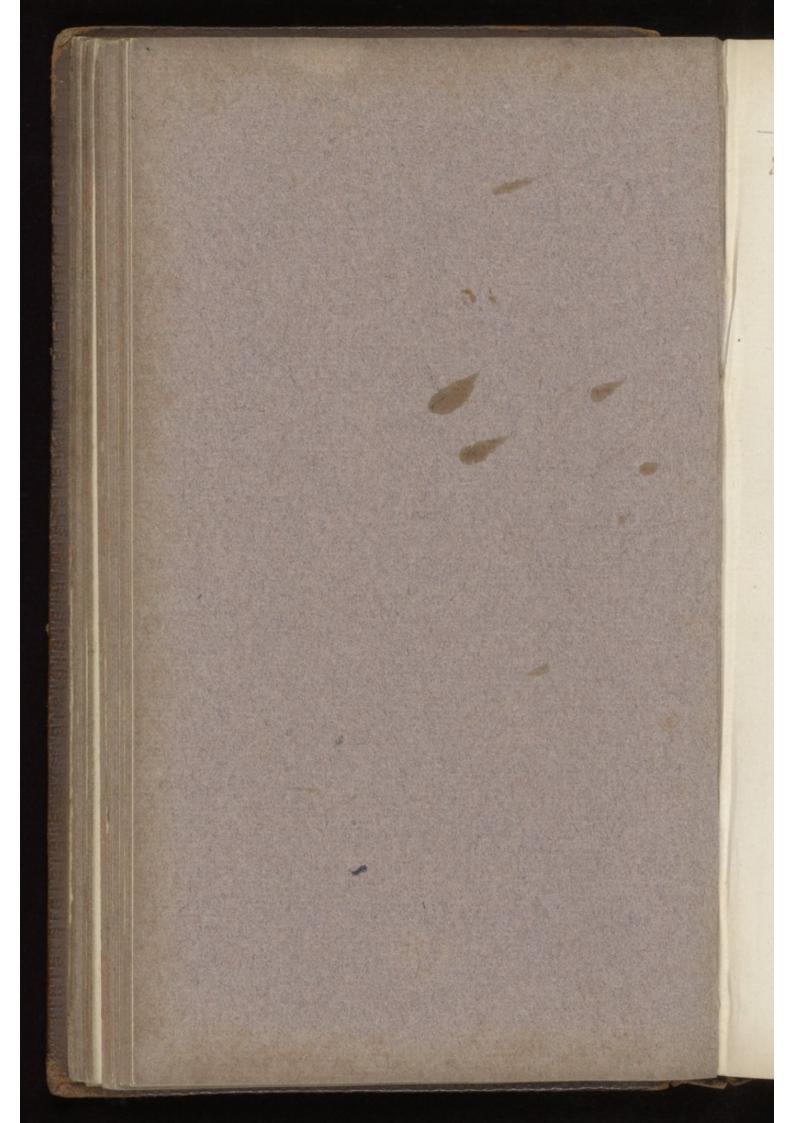
respect to the agate to be repeated.

The combistion of the diamond by means

the combistion of the diamond by means

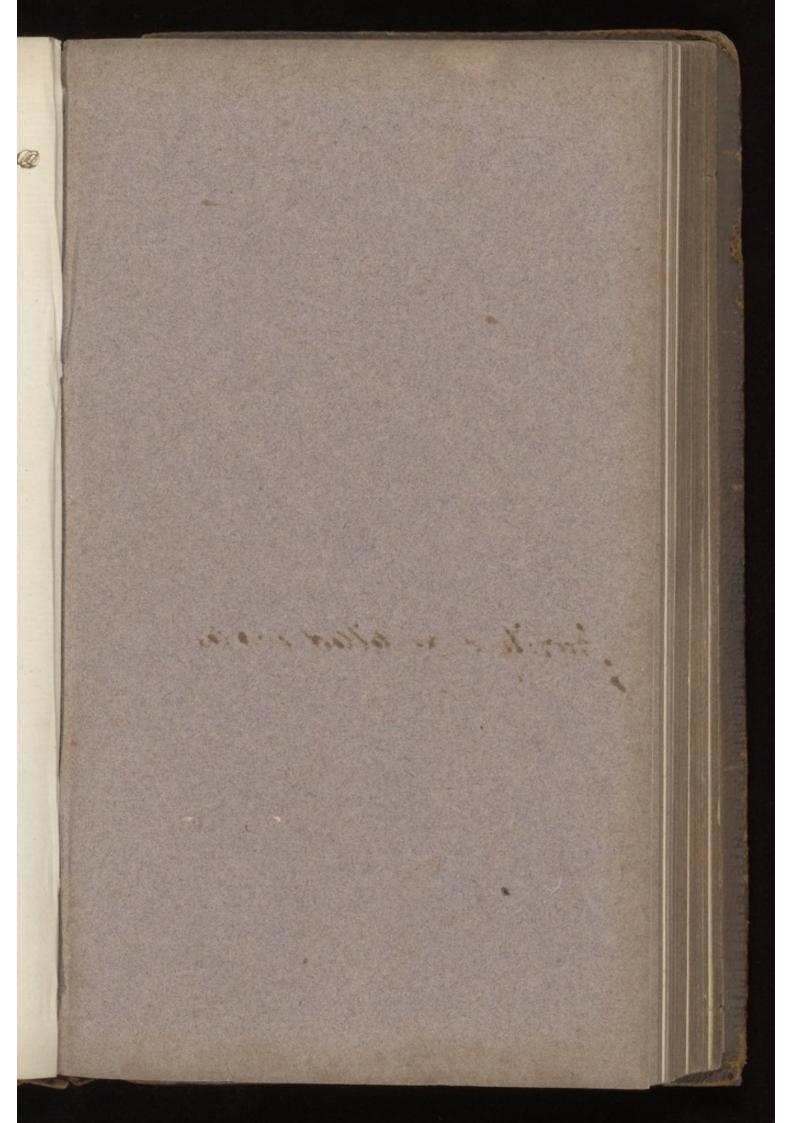
of galvanism — Mr. P. pys L. W. allen





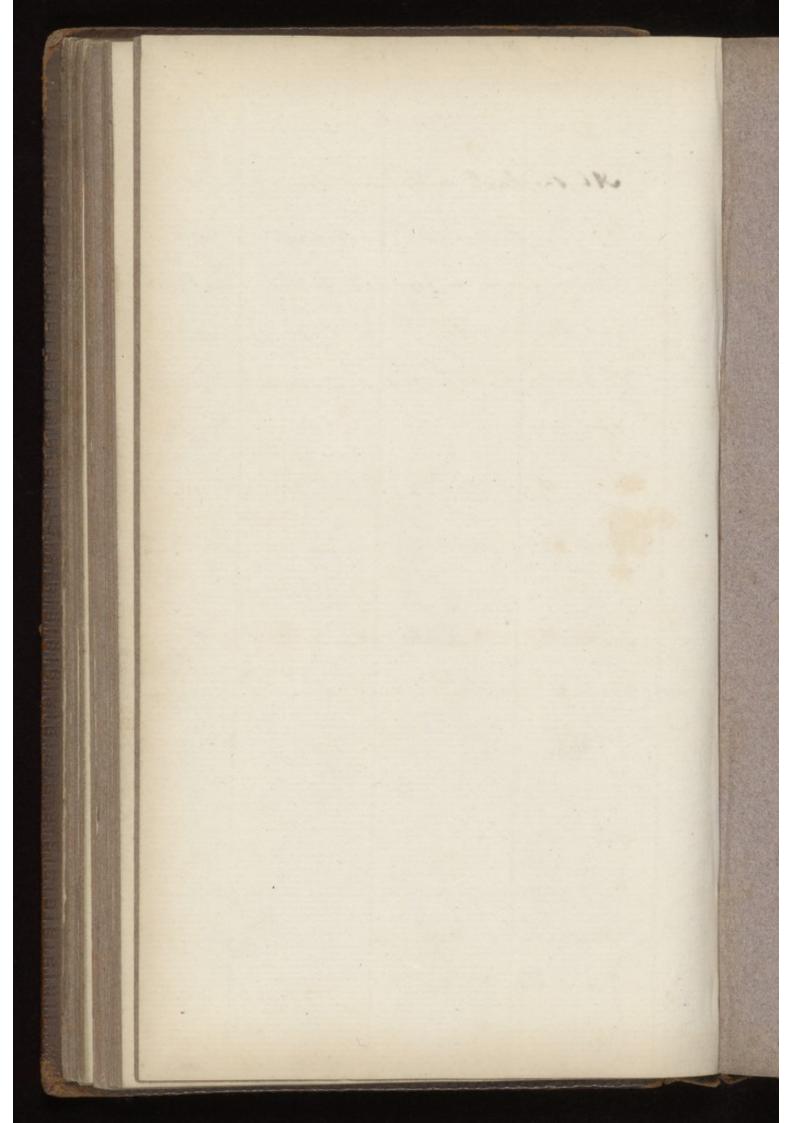
Xxx163- 1606_ Exp: combustion of the diamons by means of falvanismin oxygen gas, with a powered A houghs - unduccesful on repeating the expt of the decomposition of water in the agate cup more carefully quarter, it from any accen of atmospherical air theplatina wires connected with Lithend of the hough were anatorially changed but the water exposed to the galvanication Subjected to theter of nihat of silver errored no Sort of alteration to the praturais wires Connected with the copperends of the Frough appeared rough - the frist of a blacket the Second of a yellowish colour,

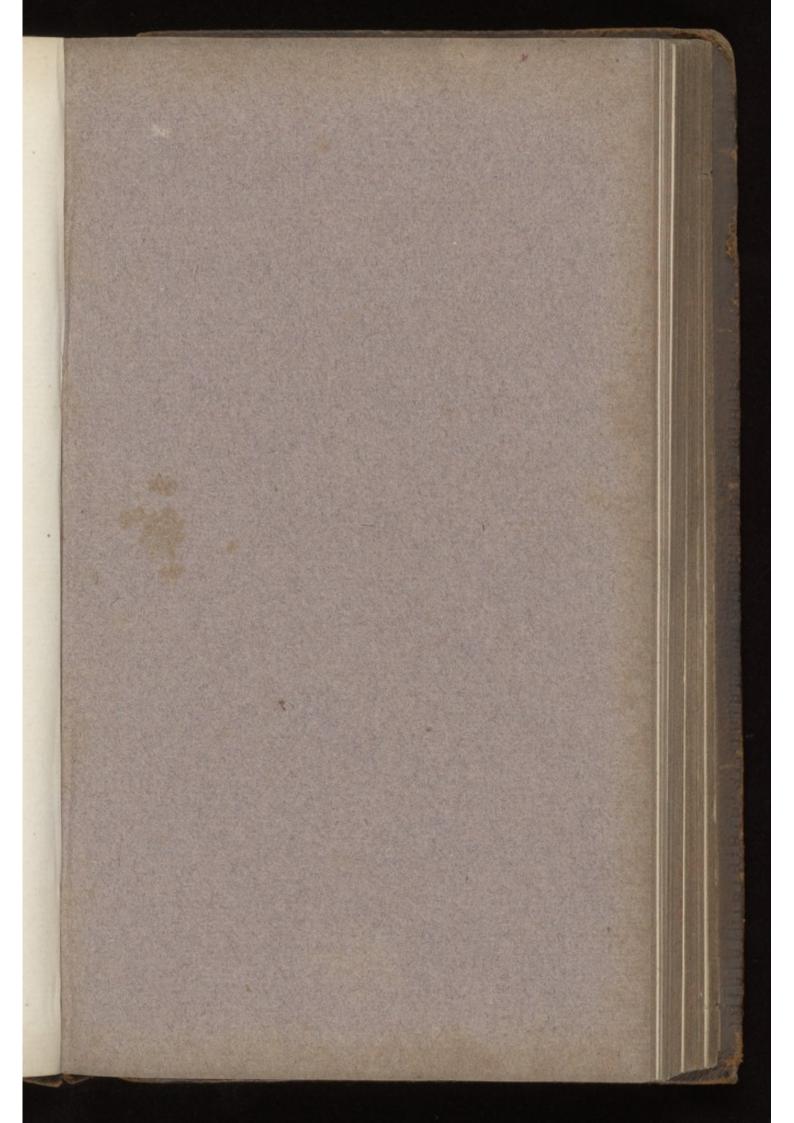
Experiment foroposed The lower of the contract of t

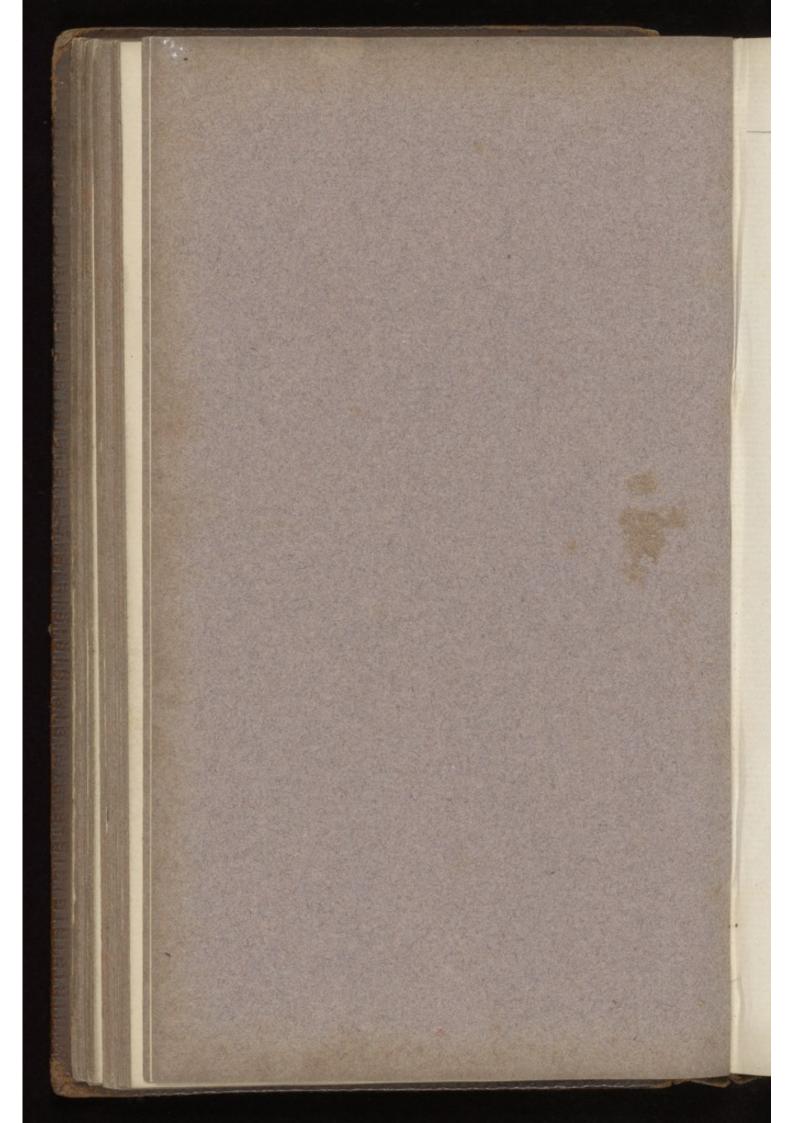


purity of distilled water

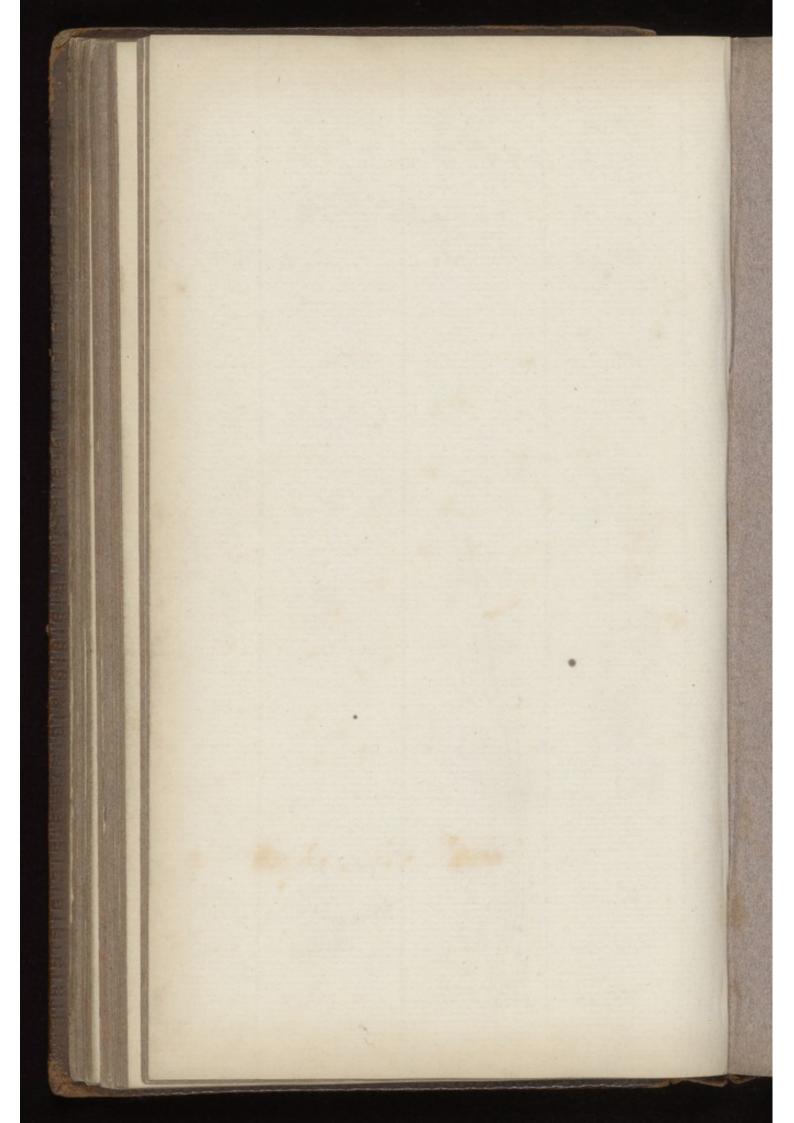
Sepren 1806.7 Asherian & Ameralogual Touchy AL the last meeting some of the tate galvance Discoveres of No Dury were repeated - The The Milhor had the hundrefs to lend some, of the apparatus he made use Ino Blocks of Sulphat of Lime or Sypsum having an excavation in each were filled with Ouver Distilled Water - In Platina Wired connected with the Negative and Postwe Poles of a Galvanie Frough were then Introduced into The Water and a communication by means of a Piece of its herters was made bother the Ines Beachs of Syhum - Sus mas obuved to be immediately

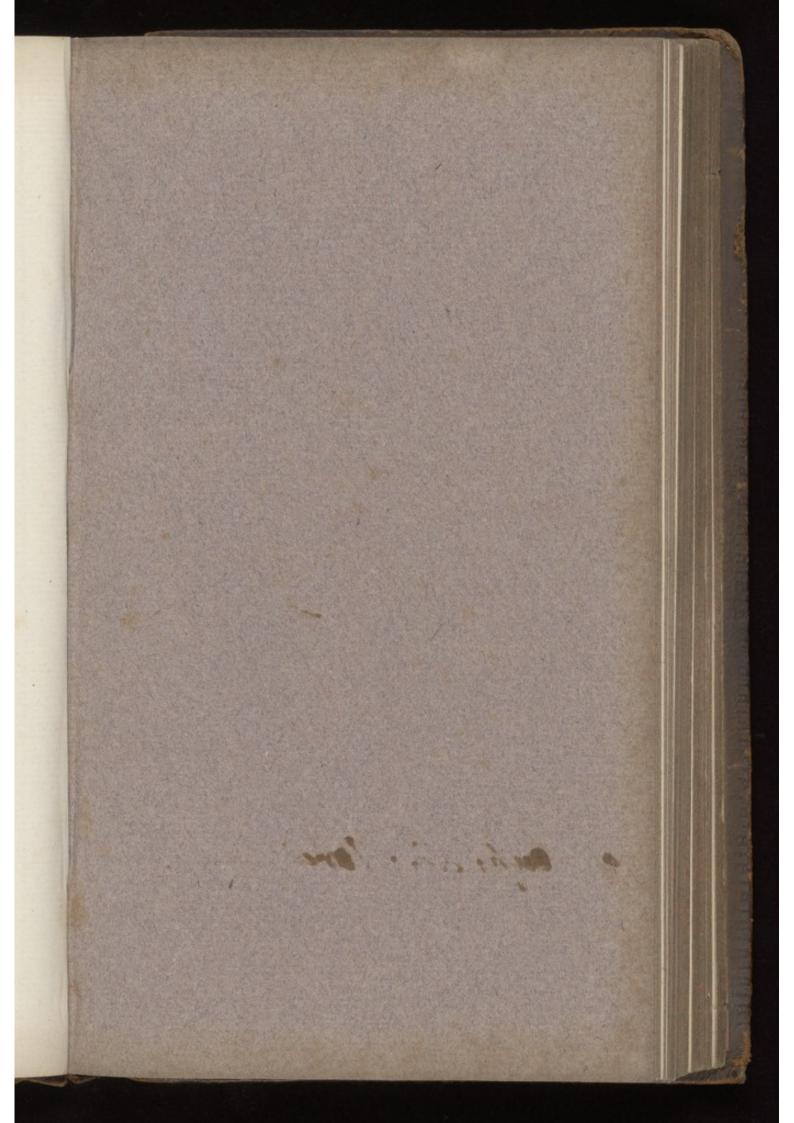






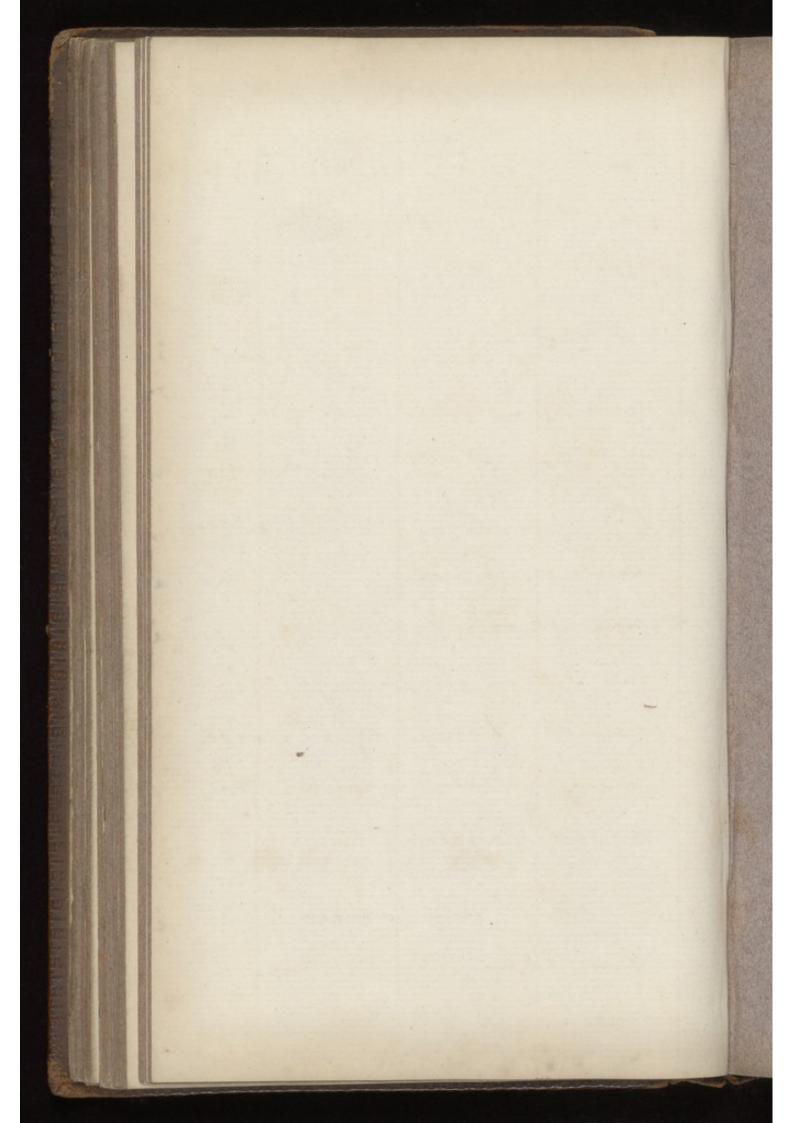
given of frem each of the threes. in five minutes a Prece of Liels mus paper being intoduced into The Positive side was changed oring an aid fremts, thus changed being fort into the Joequetere side regained its colours _... Jumere Paker was then introduced into the organization and the Colour was changed Reduch Bown frowing the presence of an Alkali The changed hapon being ful, ento the Fortwell side régamed le colour In this laherment, Mada Junds a complead, decomponhon of the Sulphal of Lime takes Oluce Sulphure and is found

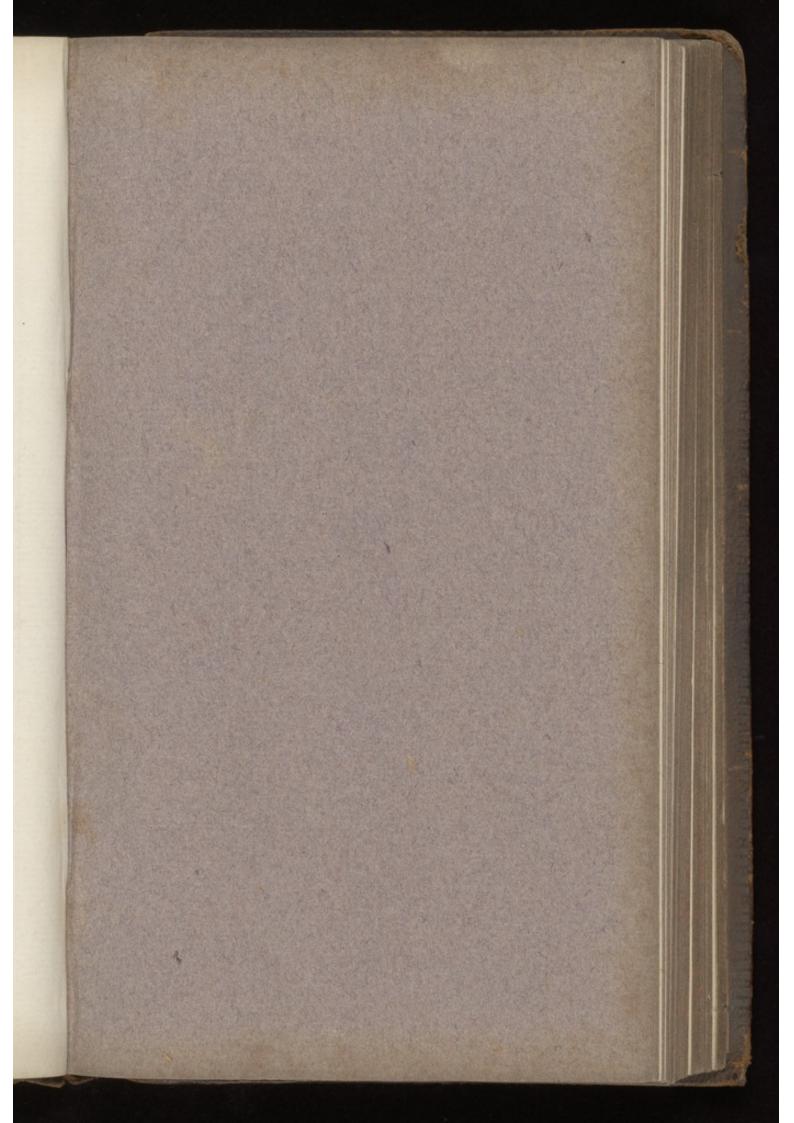


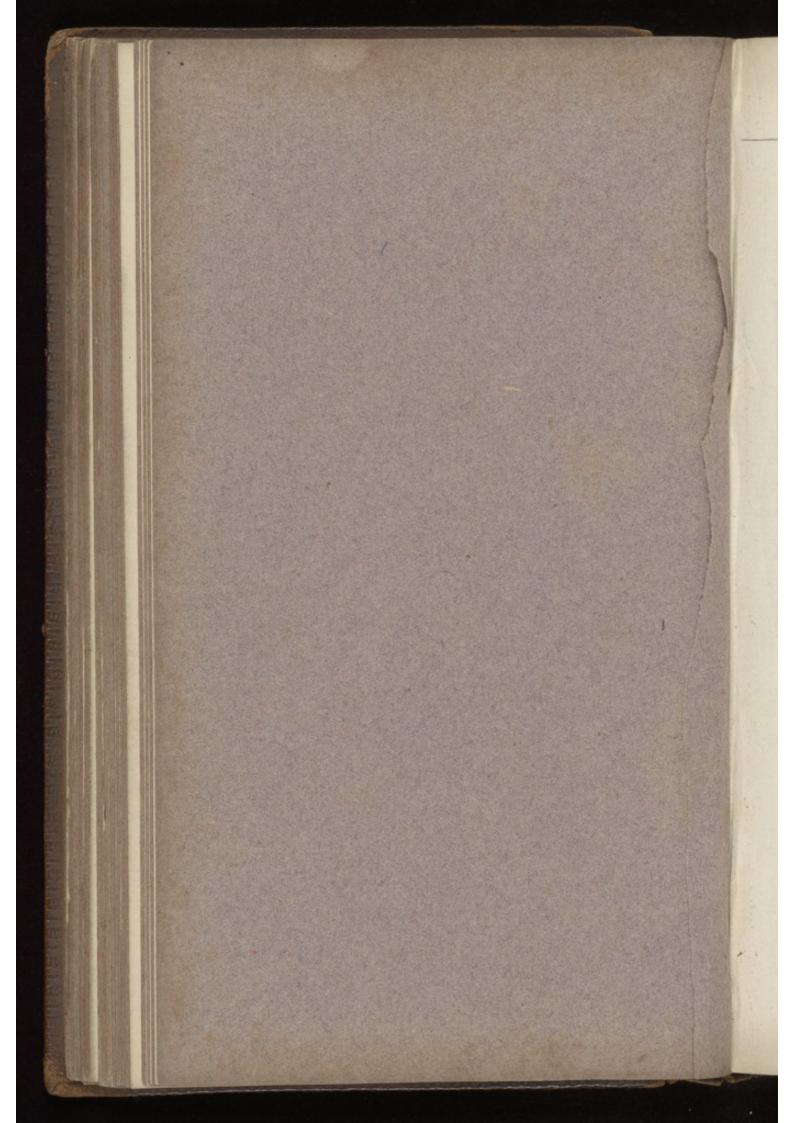


gold compradiscolored

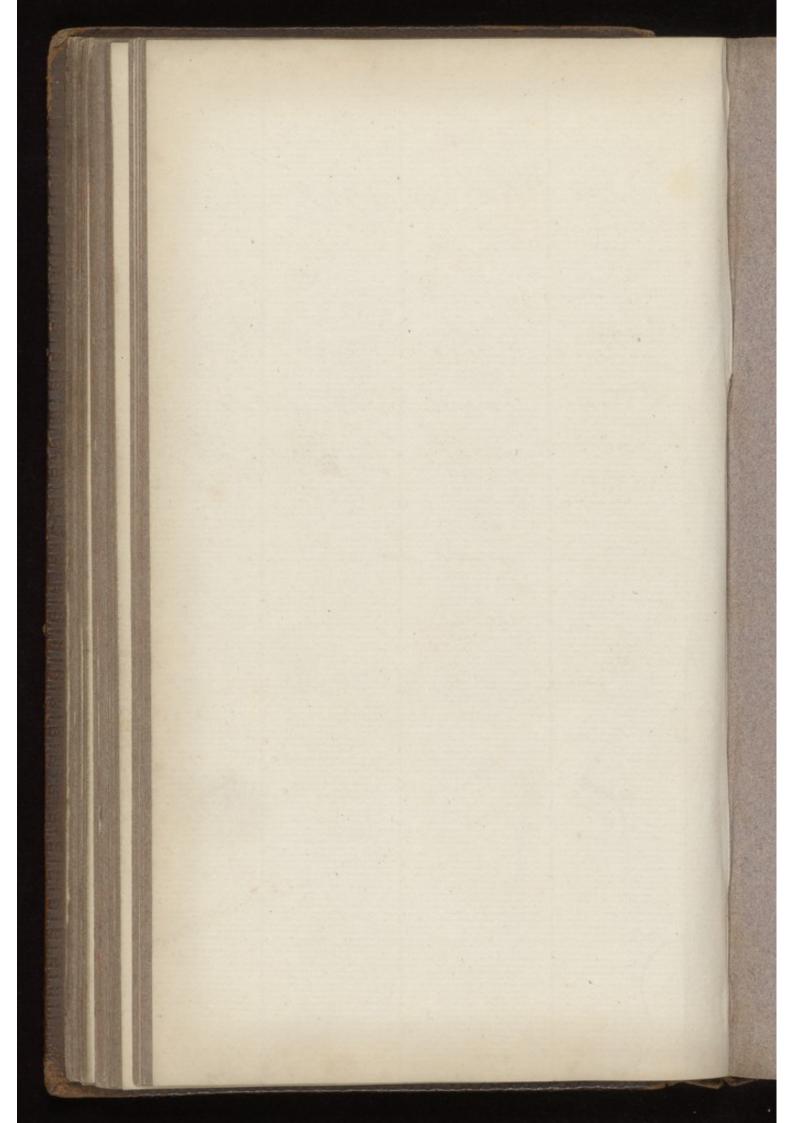
in the Contre excavation and a Strong octubion of dome in The degative Two Cones or Cups of pure gold were then filled with a strong solution of Newals of Ammonia The communications having been previously made ... The ammone was not only driven to the dregulier Cuts but in its habage, beng volatile deamed of in visible Junes - Ir Arie and gras found in the Cosilore Come, The Somety a greed to continue Mese lahements the nearly

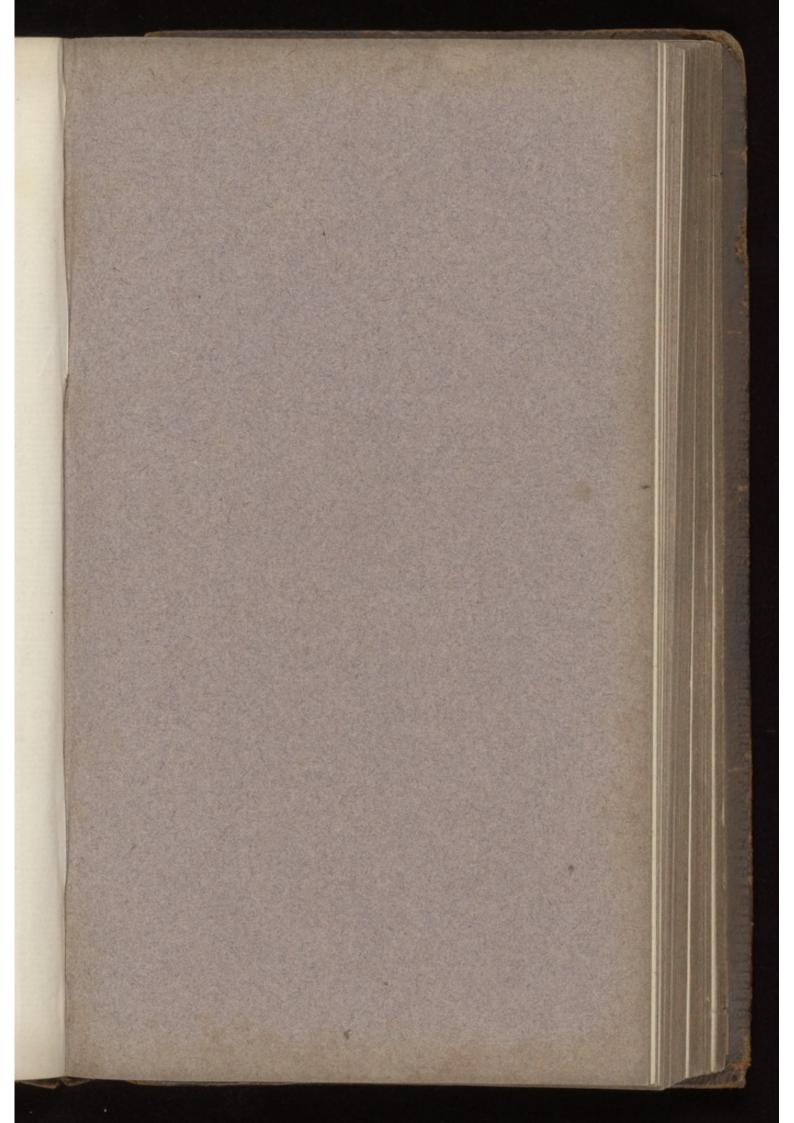


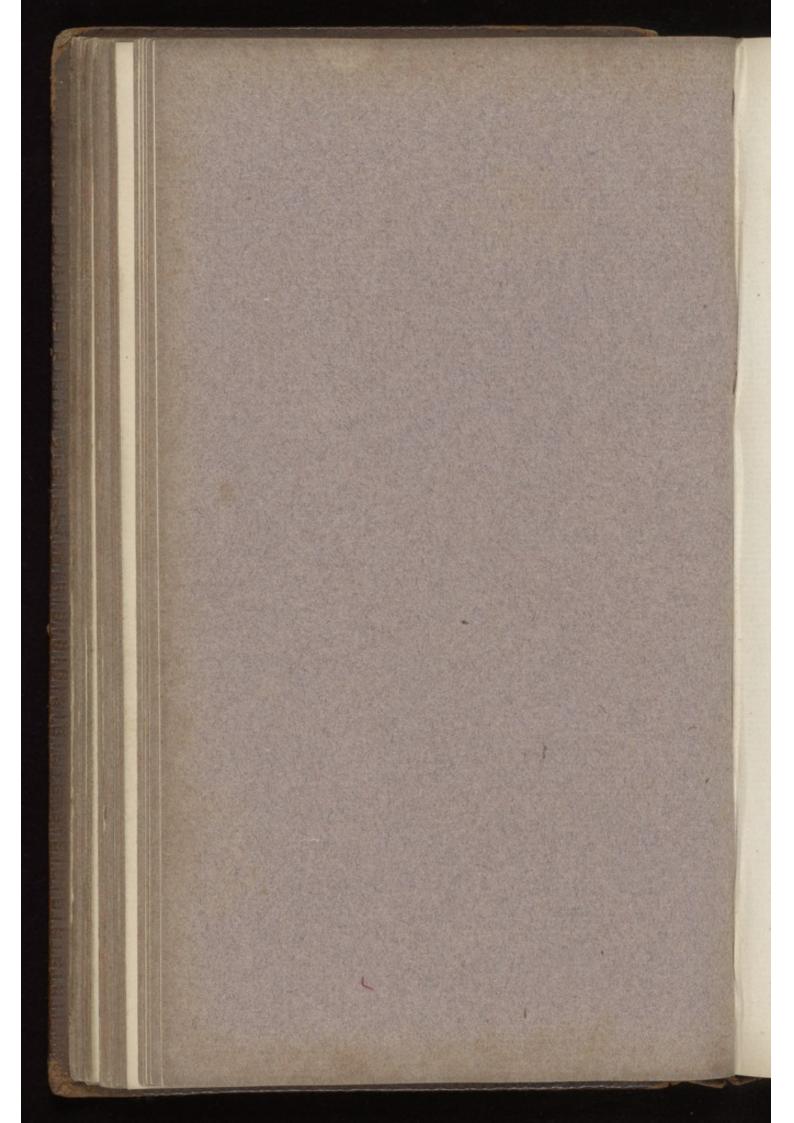




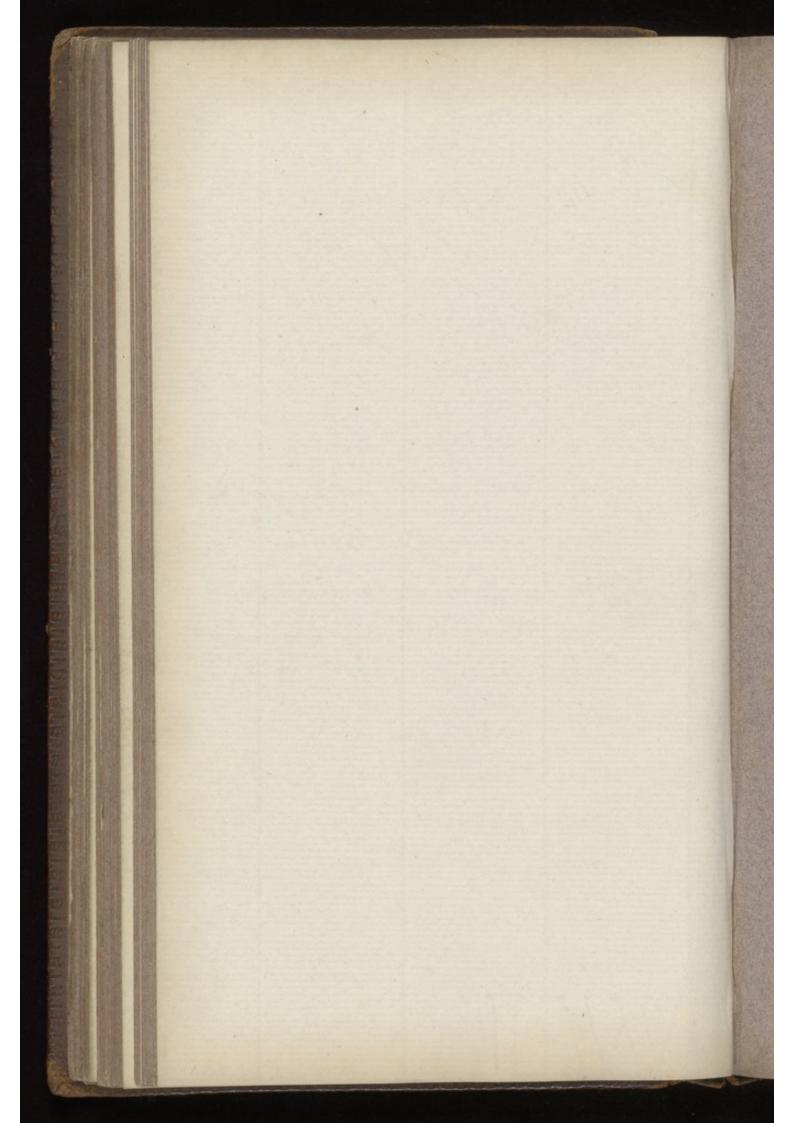
In Blocks of gypsum. Me one containing Inche of Letins the other Inchese of Brasil Wood - The Contre more reddened the Inthe of Lehrers The, Joegalive enmouned the Basil wood When revening them the Inchwes took thier Original Colours

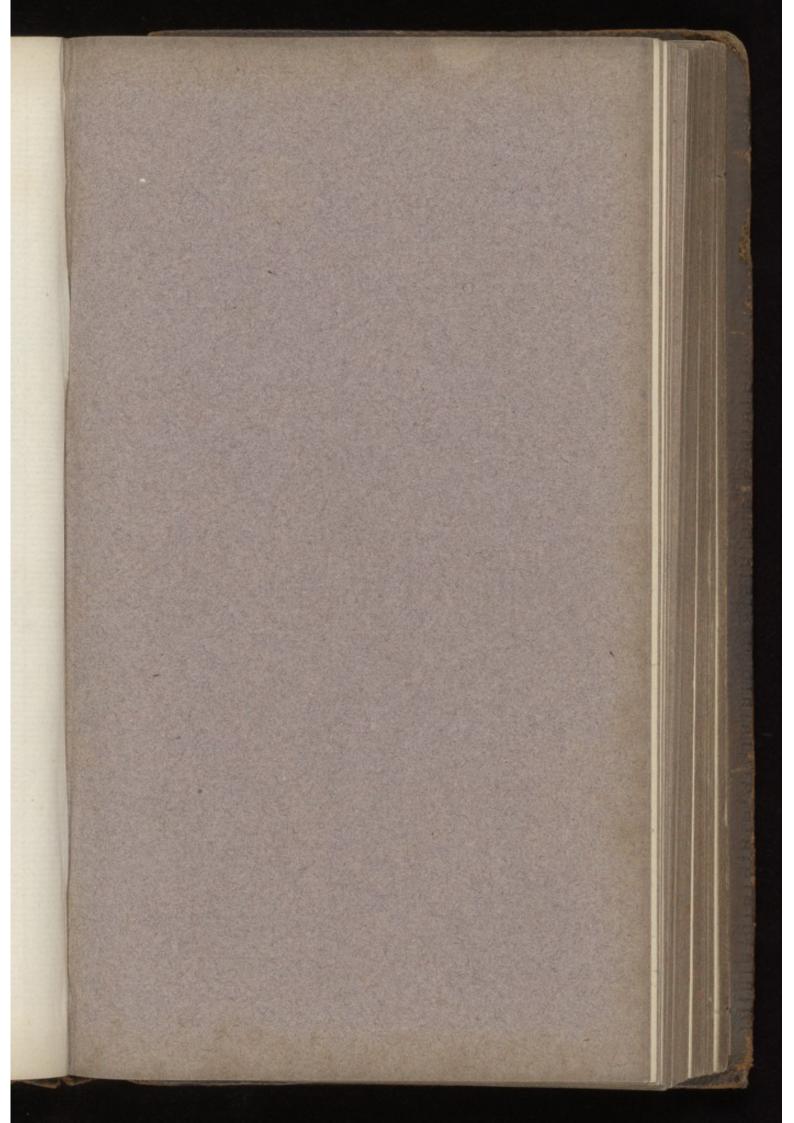


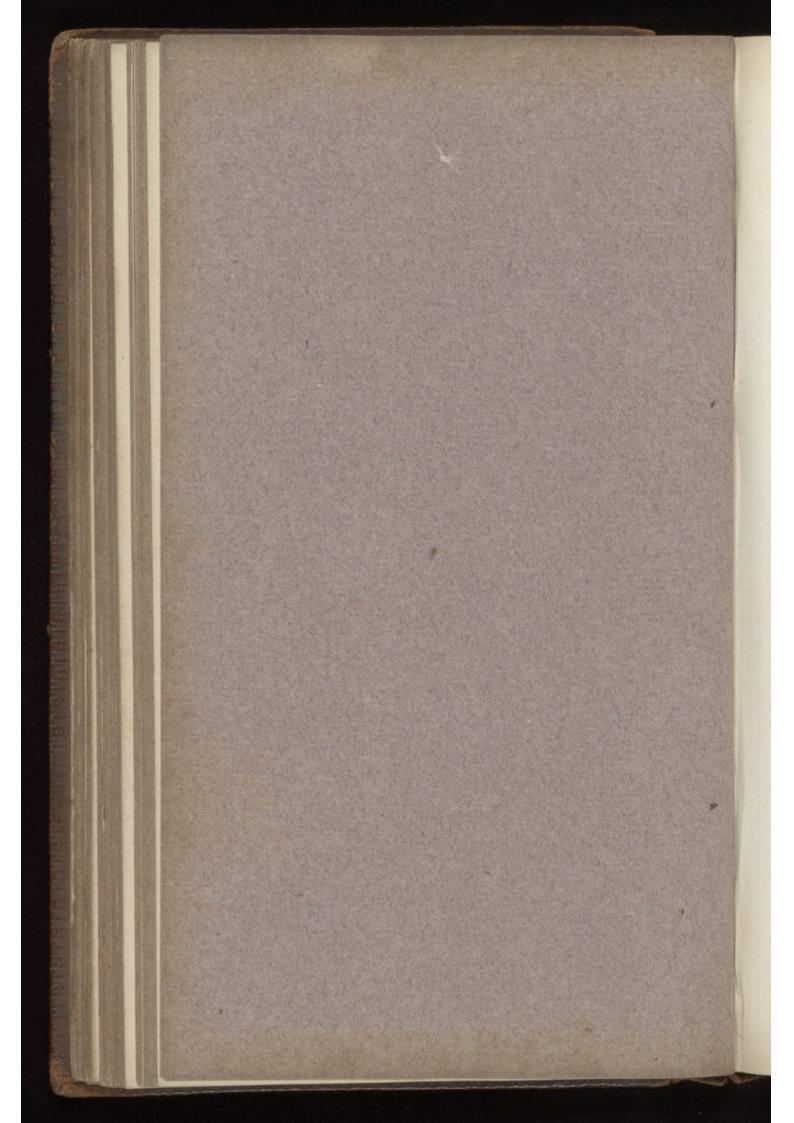




Althe last meeting the exhanments of M Davy which he terms conveyancing were tried - Three Versels One containing Annial of Sodas one sochals of then and me Distilled Water wire folace) arranged with Sypohens com municating with each, great, come being taken that the Dis telled Water should have, Me highest level, The Boutve or Line Mive was then inhoduced into the Water and the Negative Mwe into the hural of Joda, - no action look place while the glass

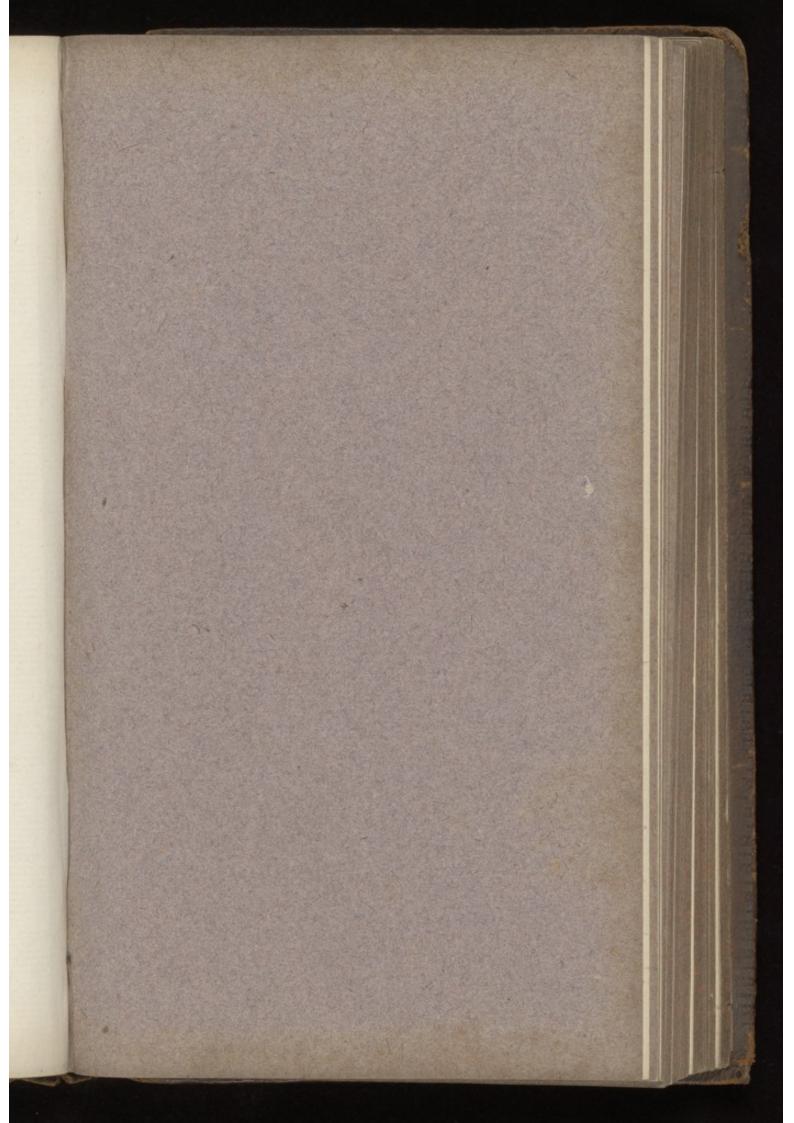






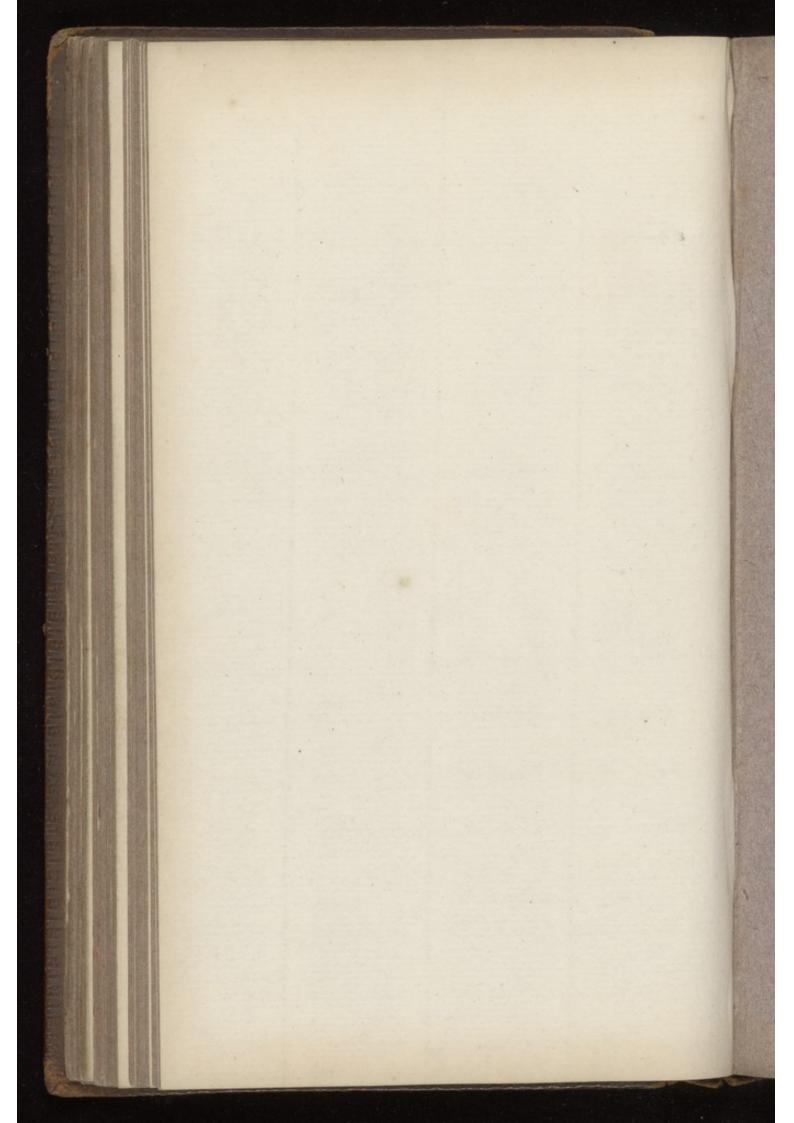
sylphons were used - when, introducing frees of astestors immediately gas was liberate from the Mives and som after The distilled Water became and withouts changing the The Nohals of orlver in Me Andde vessel, - Jame Is shal, of Silver was then Dropped inte the Diselled Water at the Positive hole, a Shapet, Opalacity was por cewed but from the and state of the flued a greater change might, have been expected. MHO mas requested to continue The experient, some hours Iwenous to the next meeting

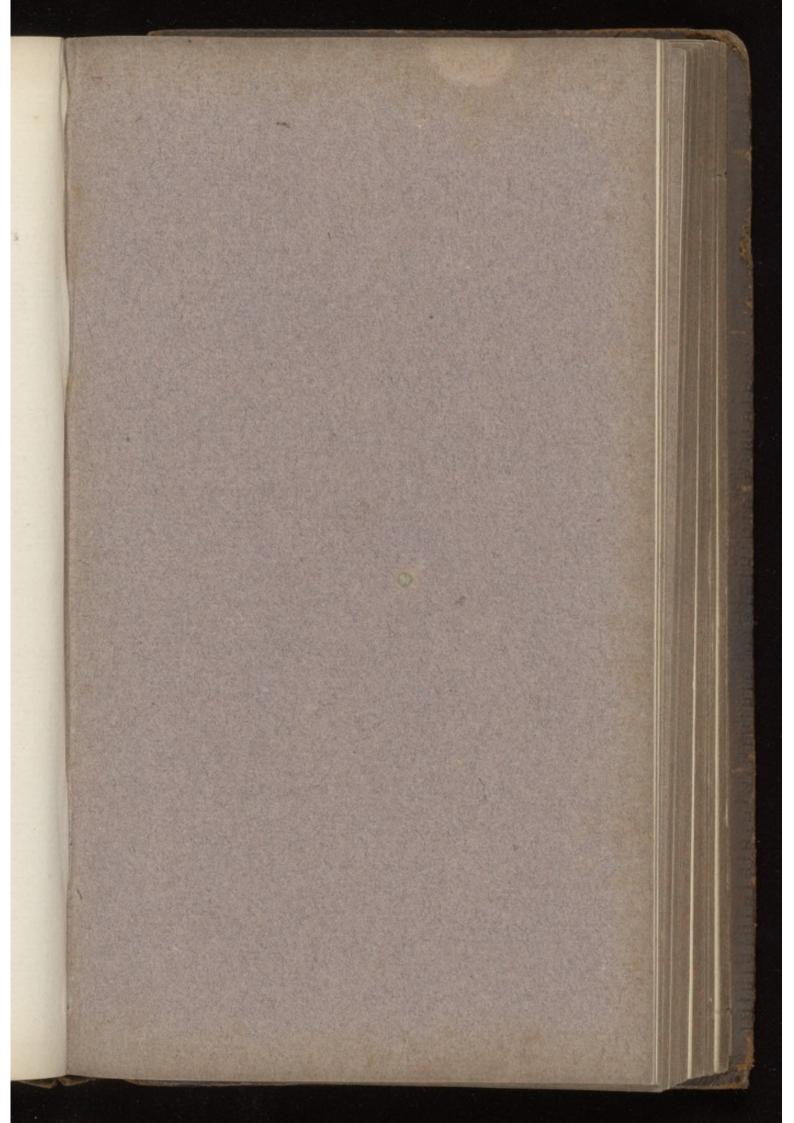
an the las L

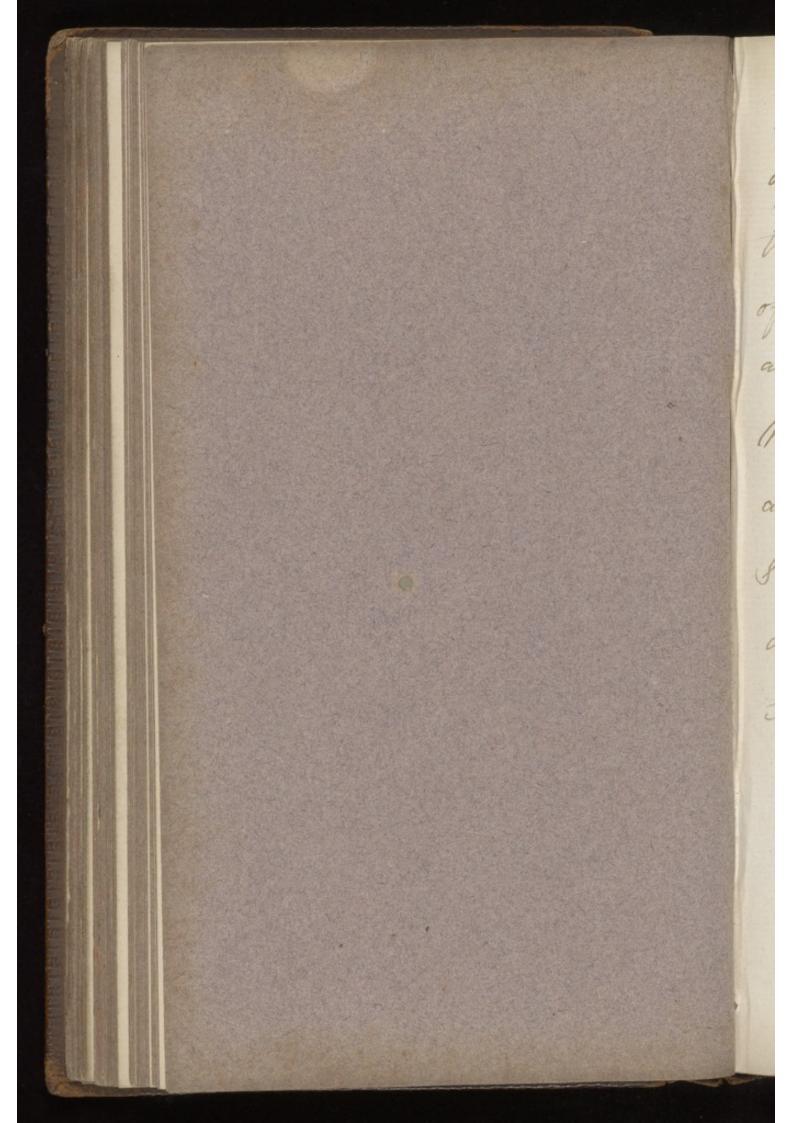


Cen ne Cer 2 ex w

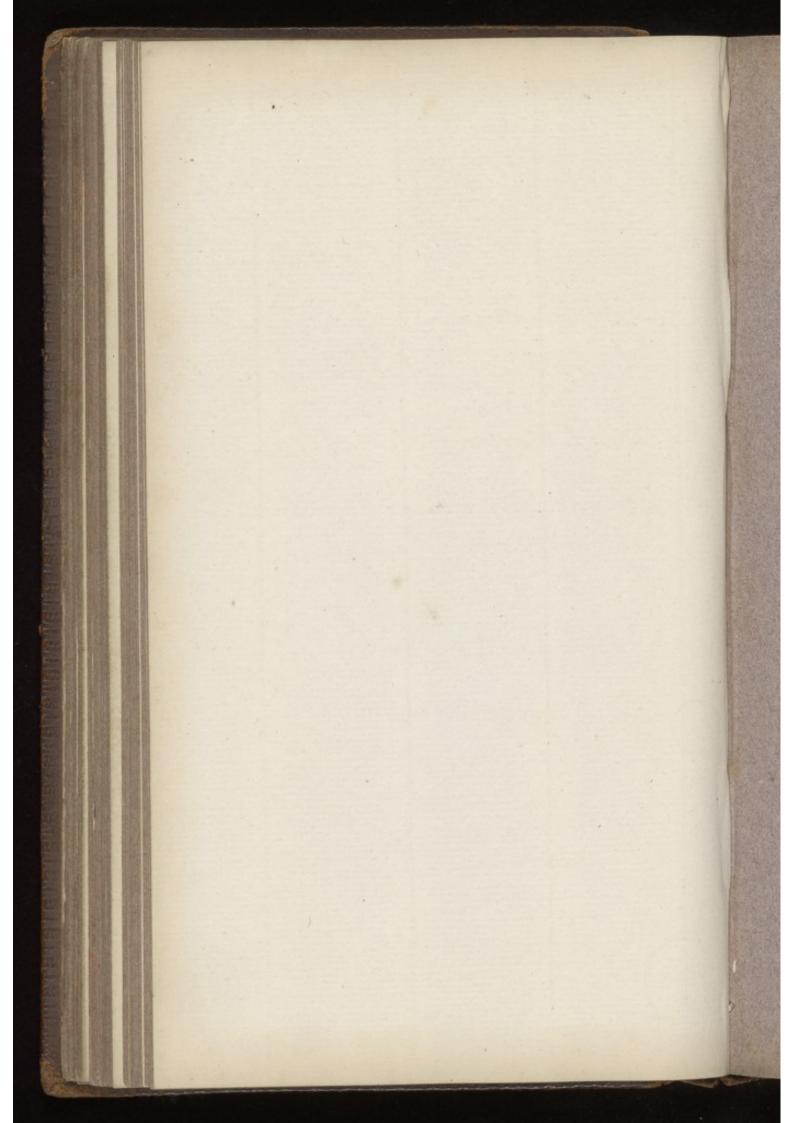
On the last Evening of . meeting the conveyancing experiments of Mr Davy was antimized The three vesselv overe filled - do von Lof oilver Anviel of John and Dio tilled Water - Shal the syphens of Communication might mot touch each other in the midle vessel, - Frehes of Platina More was inserted in the Astes thos, and secured a heach, end, that the bending of the were mught form the commun reating arch, The apparatus being filled, - gasses was obs

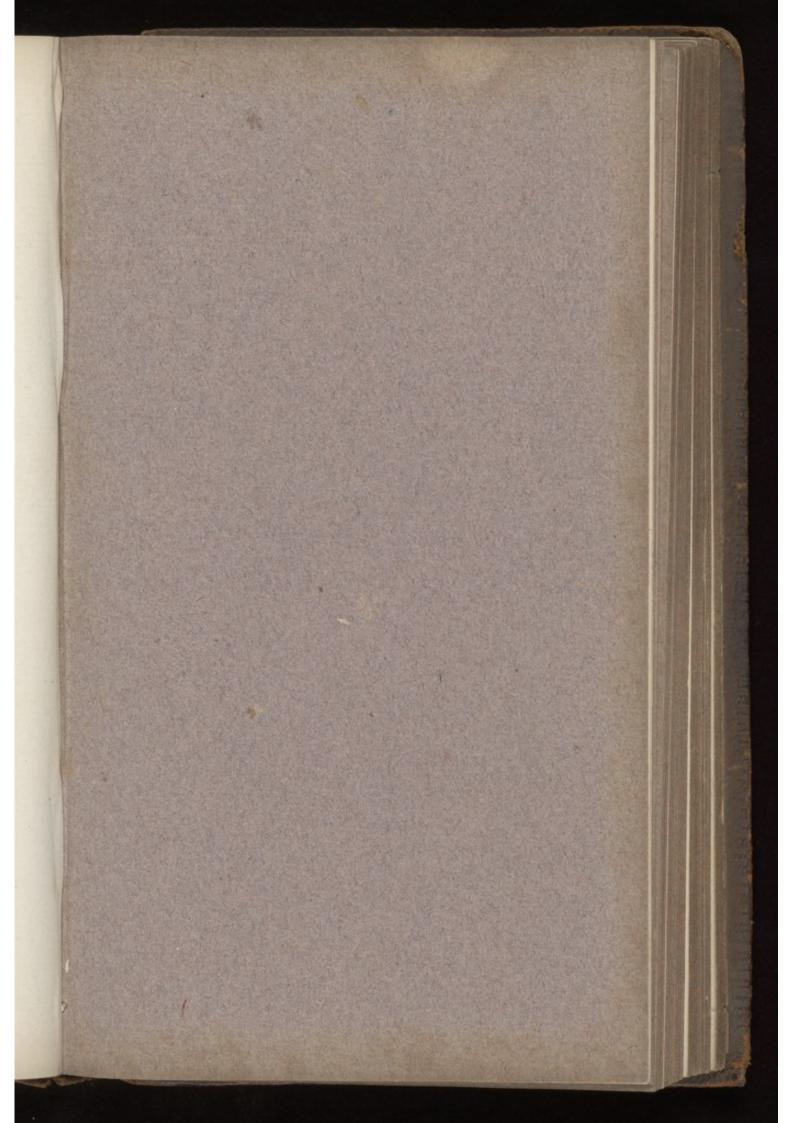


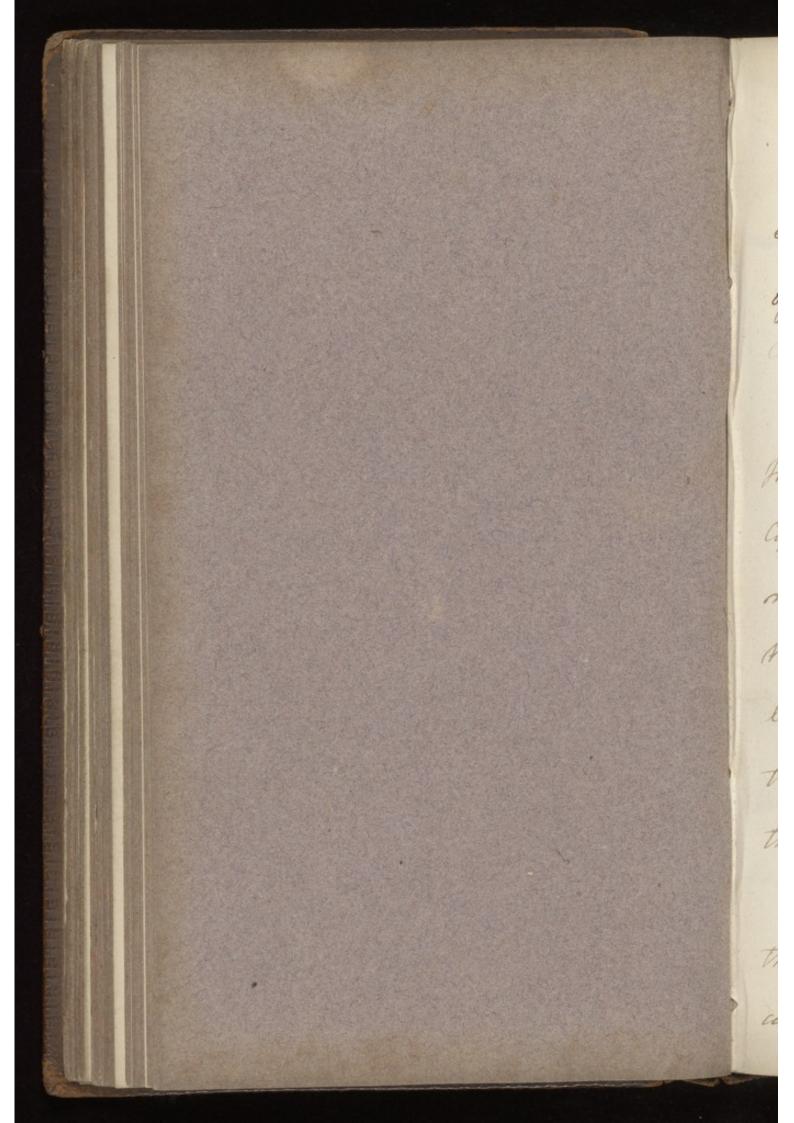




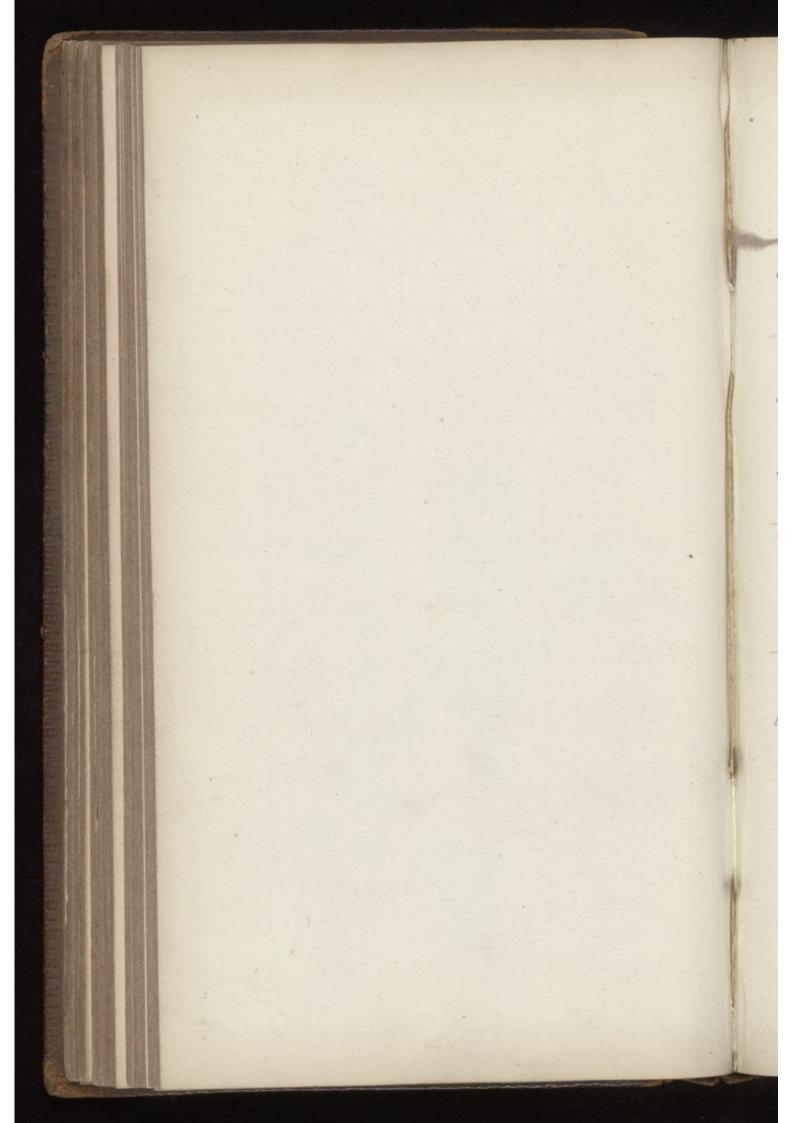
erved to arise, from each ends of the one's of communication, the Nibols of orlow became of a Sach Brown colour, and as it subsided, liberated fas, The distilled Water became and, but produced a very Shaper degree of Chalacity, on droftping in do Noal of Telvers (





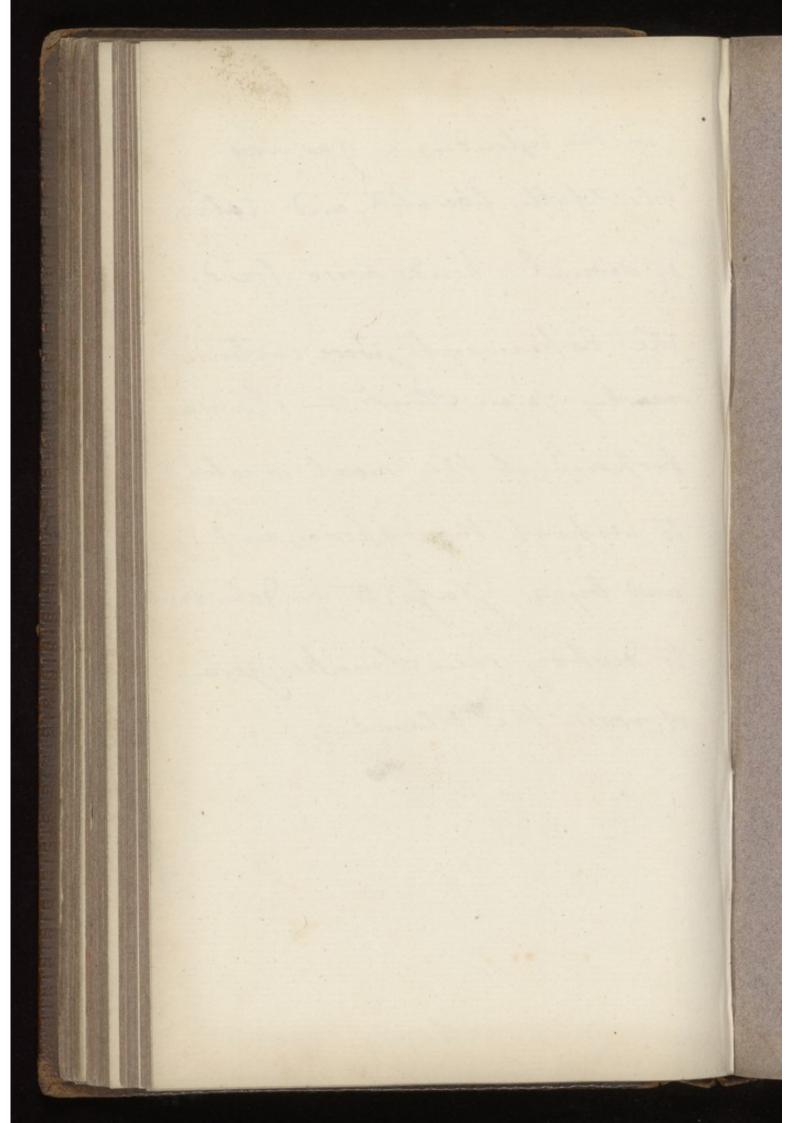


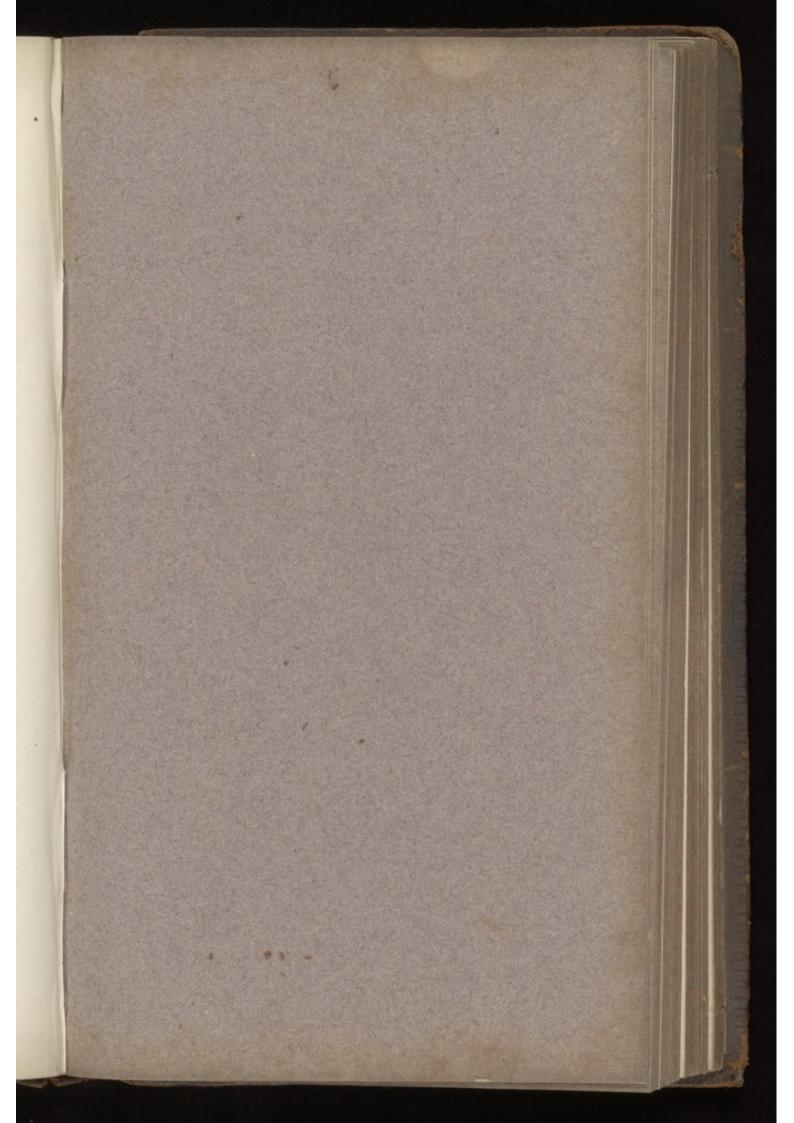
I everal members howing expressed a desire, that, the Expert of the combination of the gas, from Petroul should be made, -2000 grains of Coal in small freees, was introduced into as Cylindrical Tube of From, connected nith a Tin vessel, containing Water, so That the gas, should be Oblidejed to bago through The water, provious to its entering the Smaller tubes, for combustion. It required above ten times the weight of Coal, for the amplead carbaiozation of the Coal



in the Cylinder, - gas was Istentifully liberated, and jetages of several kinds were trued, the Experiments were continued nearly 1/2 an Stours . - It was proposed at the next meeting, to repeat the laherment, and by a Slago, to endeavour to destroy the Smoke, given

of with the Flame ;

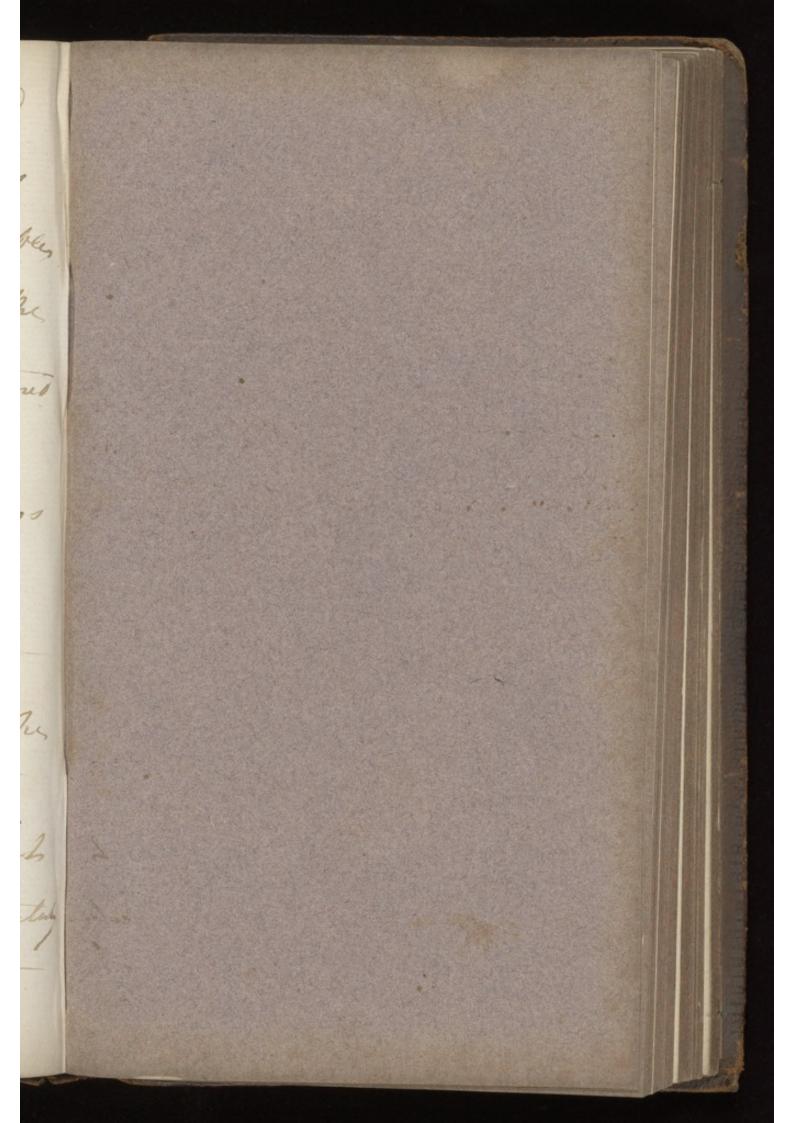


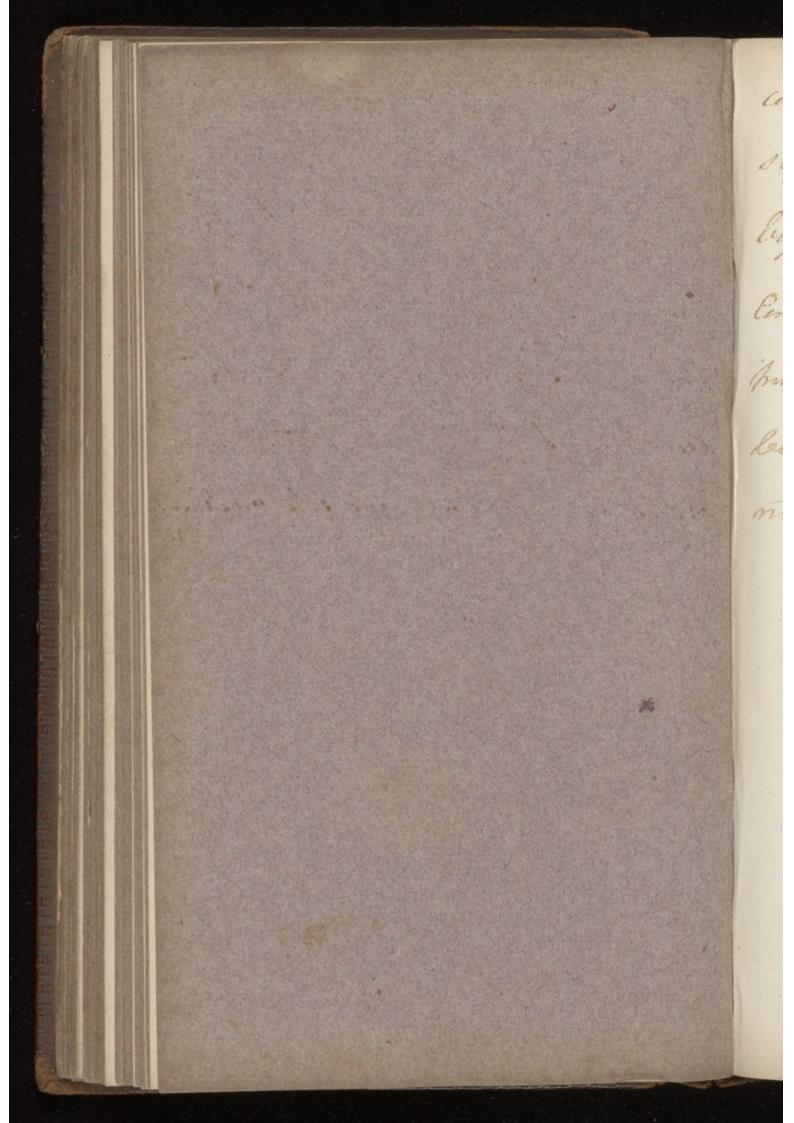


an wa m ton v 40

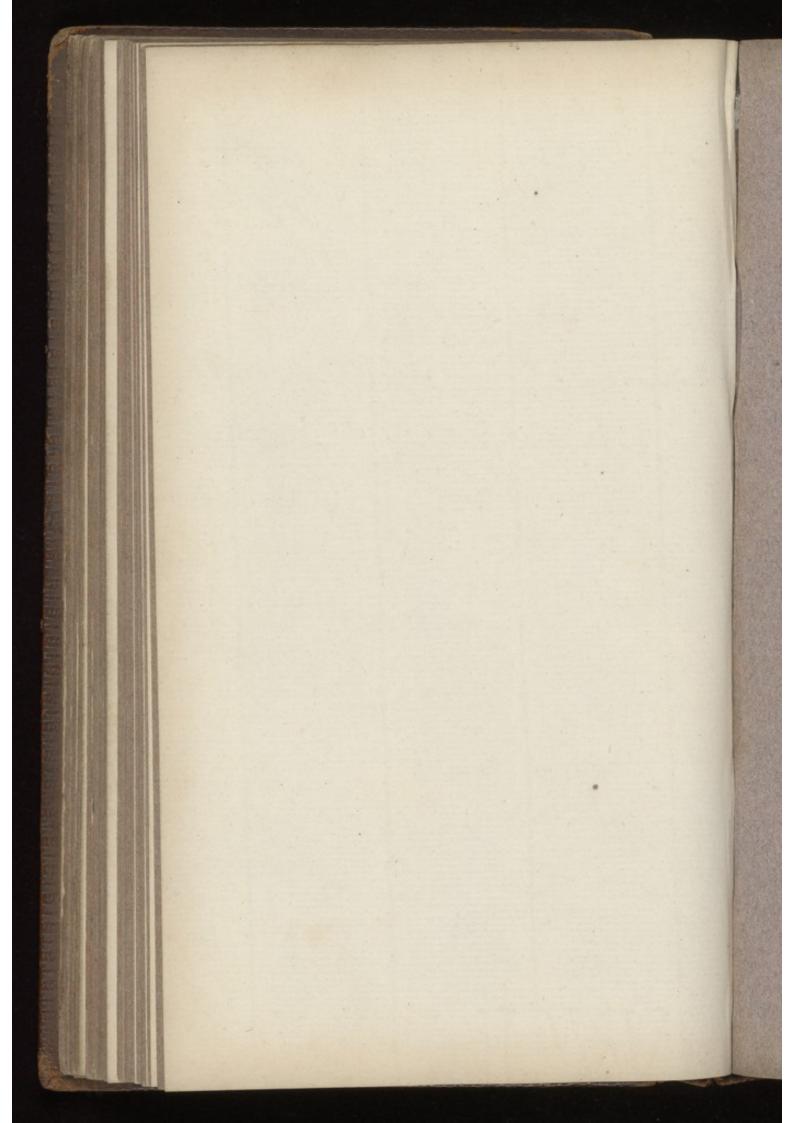
Sar 14 & 28. The Experiments of My Davy were repeated on a Large Jahranic Mparalus of Mr Popuja consisting of 120 Plates Copper & Line 36 Inches Sanewe -· Polash rus decempored? and the heldoud frouved was thrown on Firmer hapers moutened - a deflagration, instantly trok places and, the Paper was marked with the Crimston slain of the Mhali Jamed

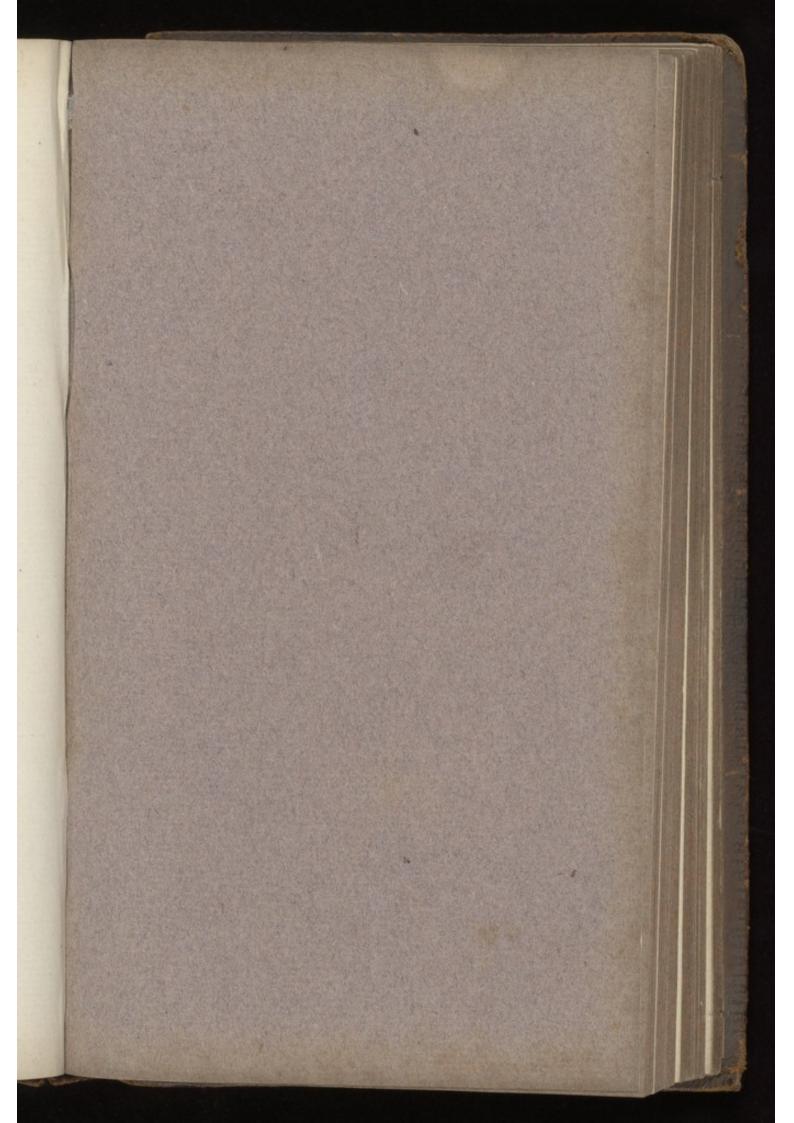
Toda mis also de consposed and the Globule fromired was found not quite so inflamables as that from holash - the haper mois tened was stenned in a similar manner as The last frowing the recompos thon of the Male The chiefe defficulty in their Experiments are the ochevation of the Metaloud from the Mate in which its is im biddeed - It was frastricted recainended to The members to

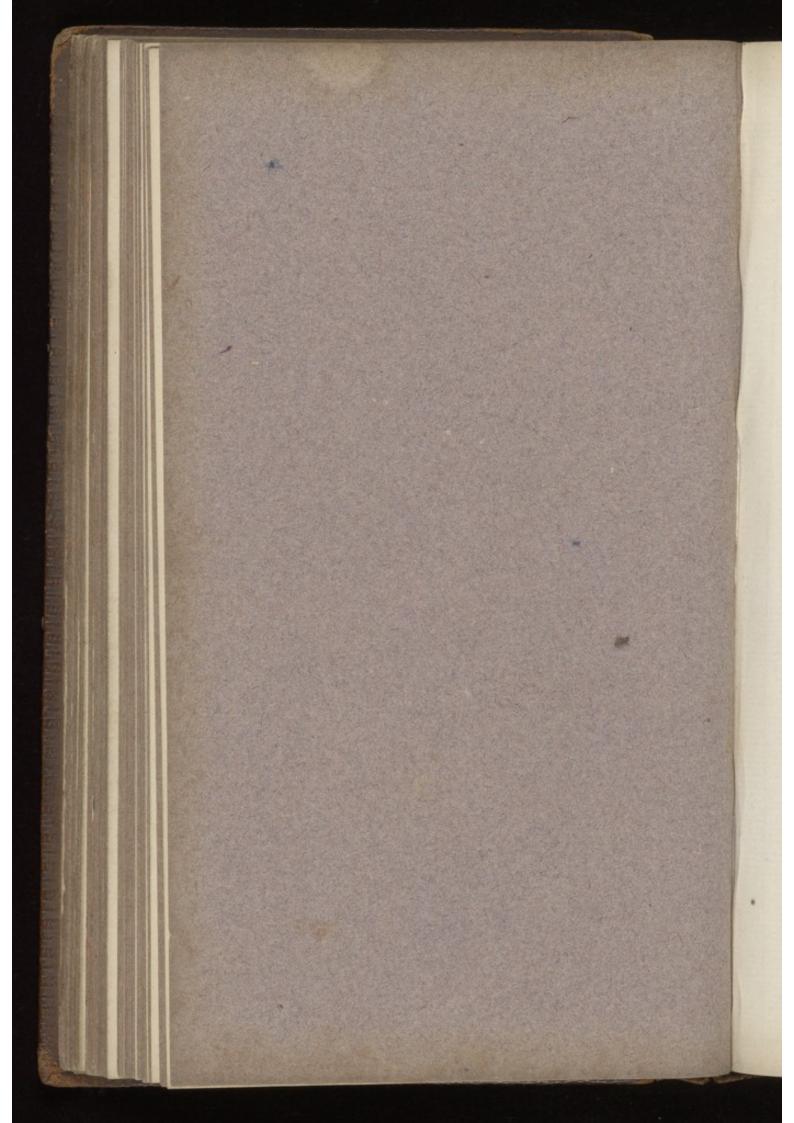


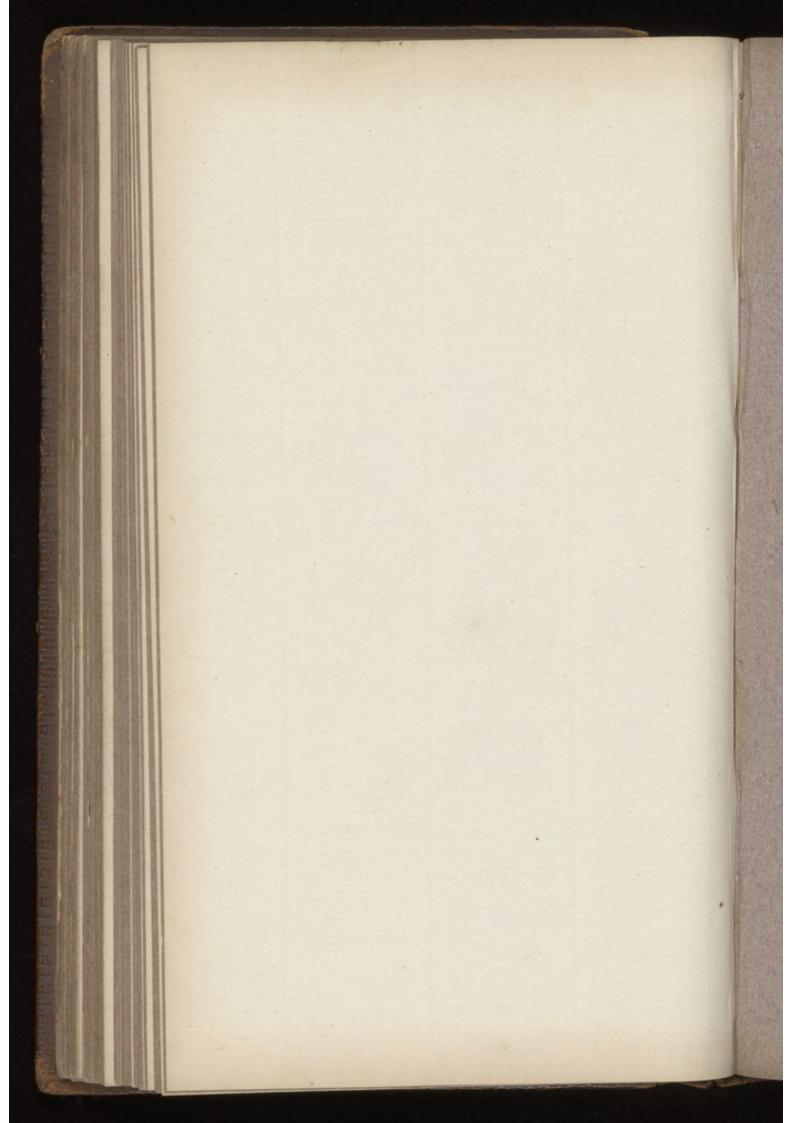


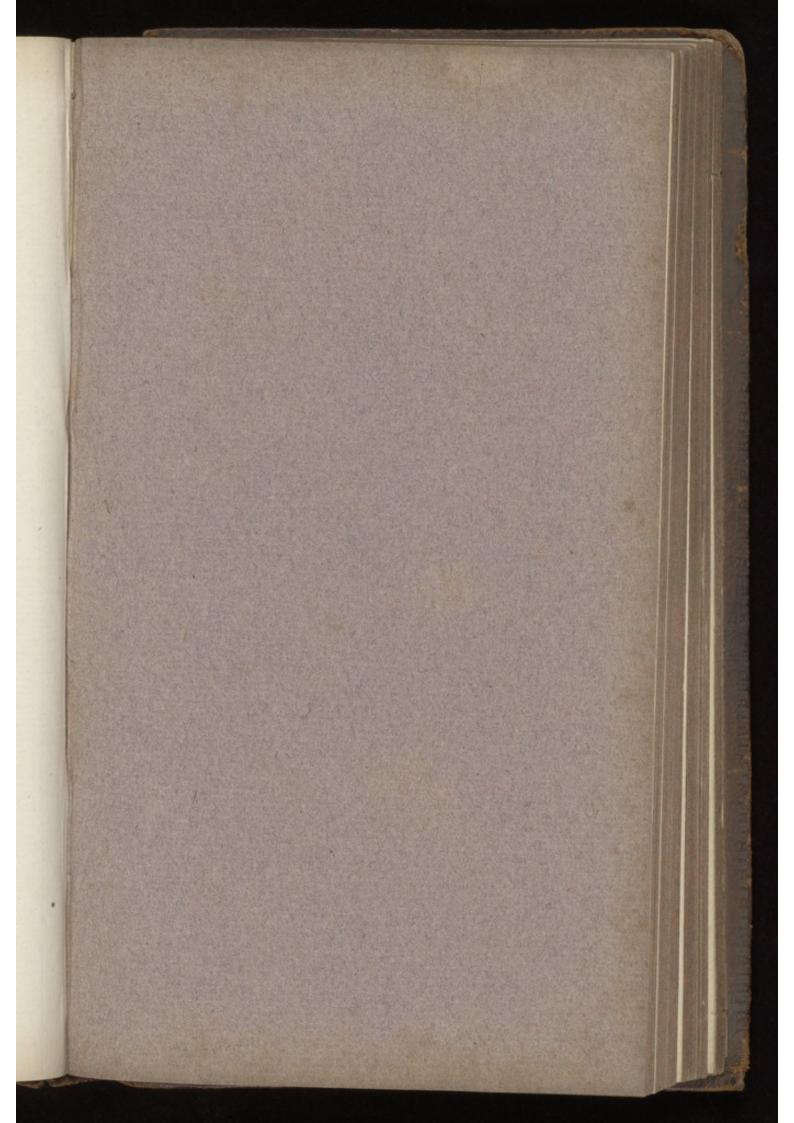
consider the deal method of scheration - The one proposed by the anther being Expective Communications to Bal. purpose it was stated would be thankfully rueved and noticed at the needs meeting

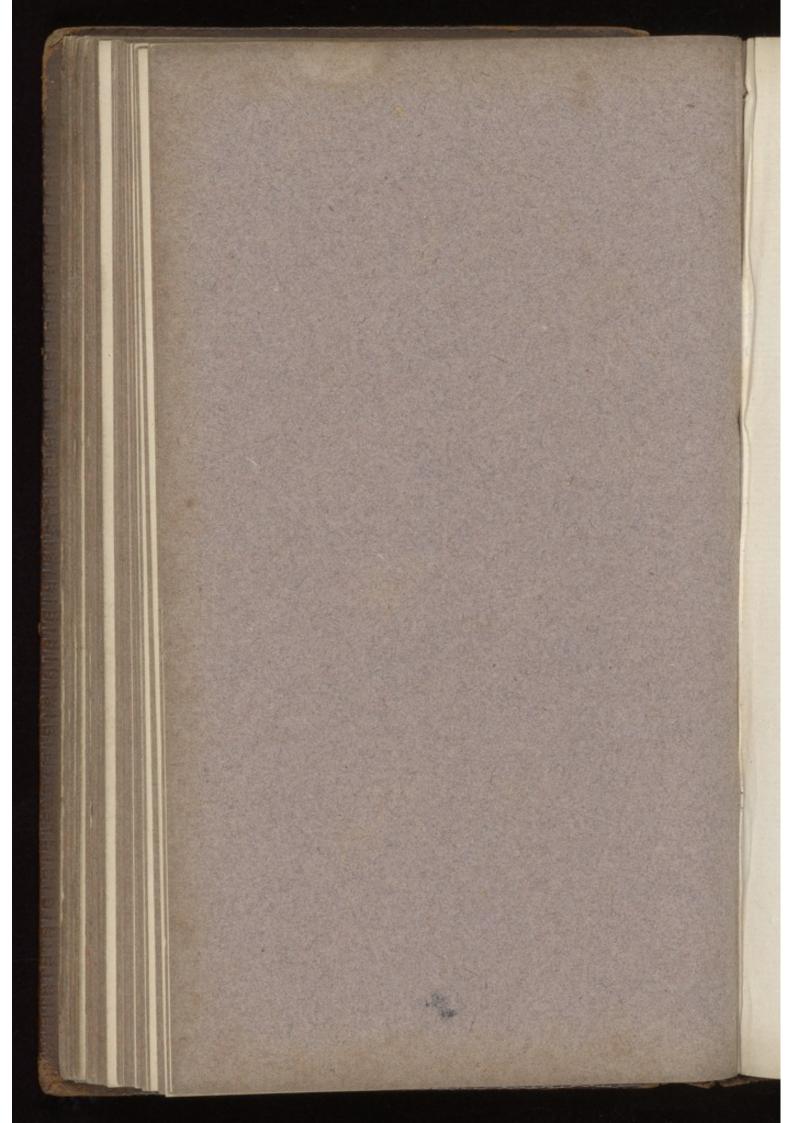




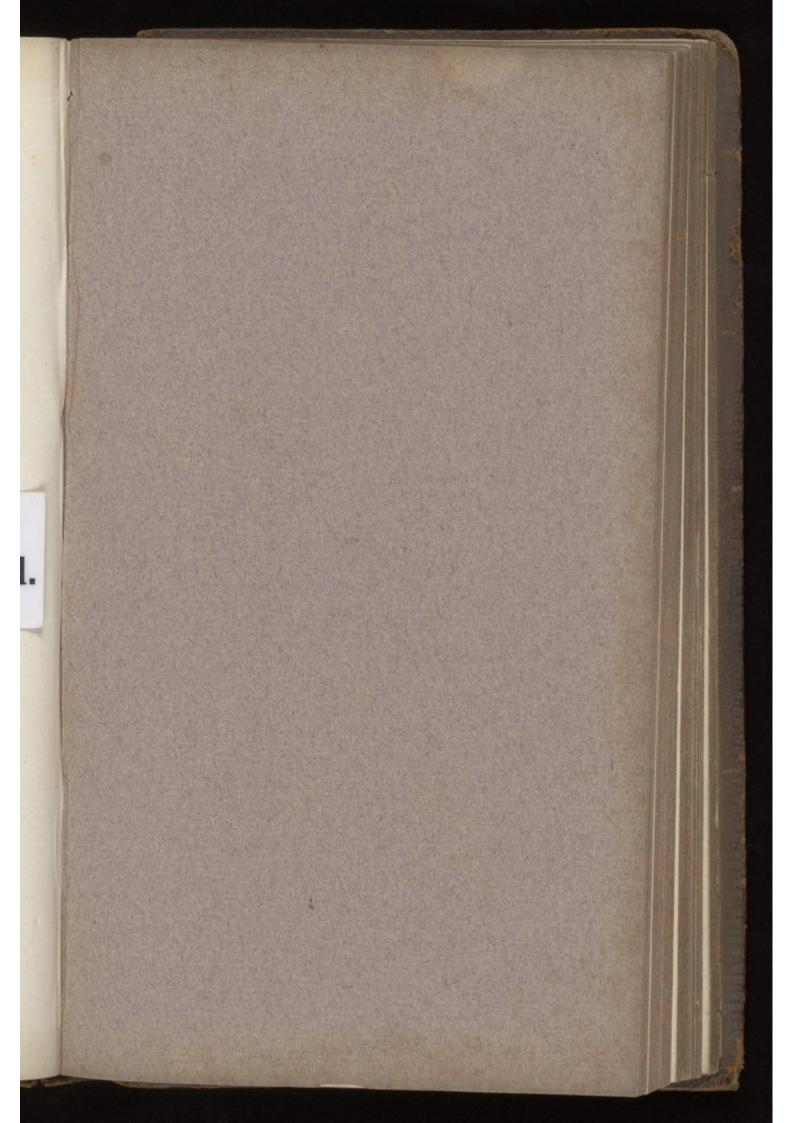


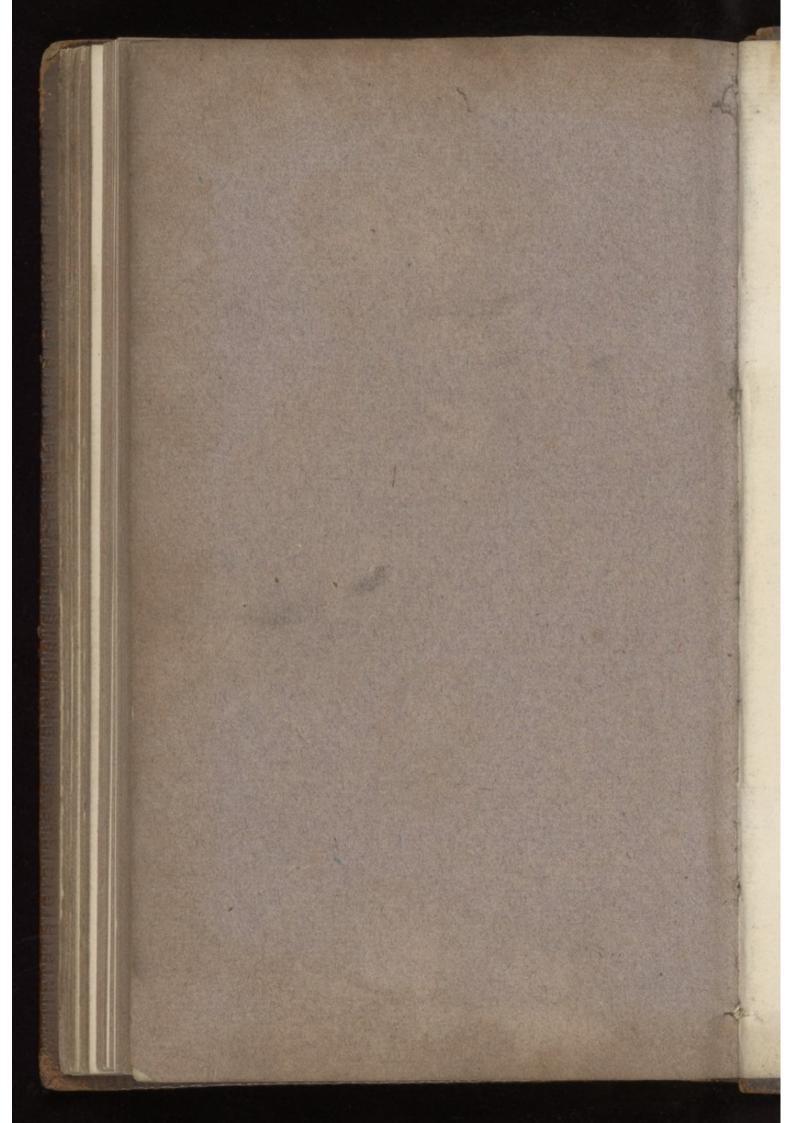




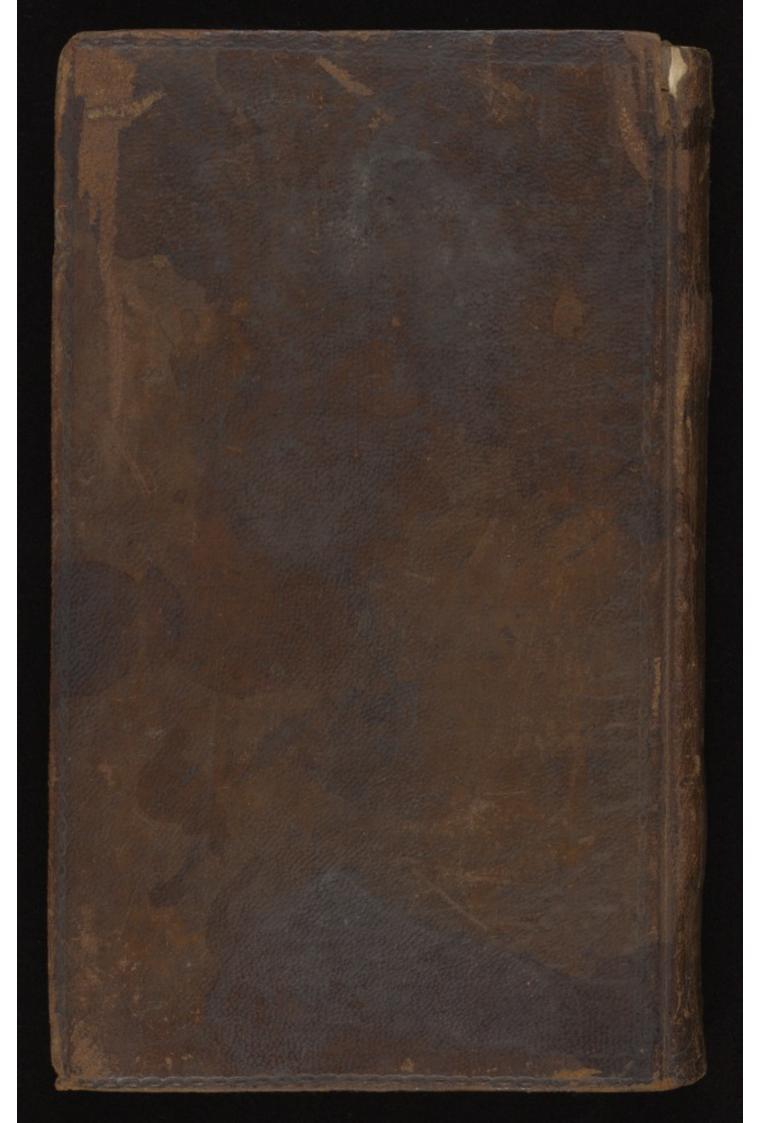


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