

Copy of a printed diagram referenced as "Building-up of energy bonds by repeated addition of one more atom"

Contributors

Fuller, Watson, 1935-

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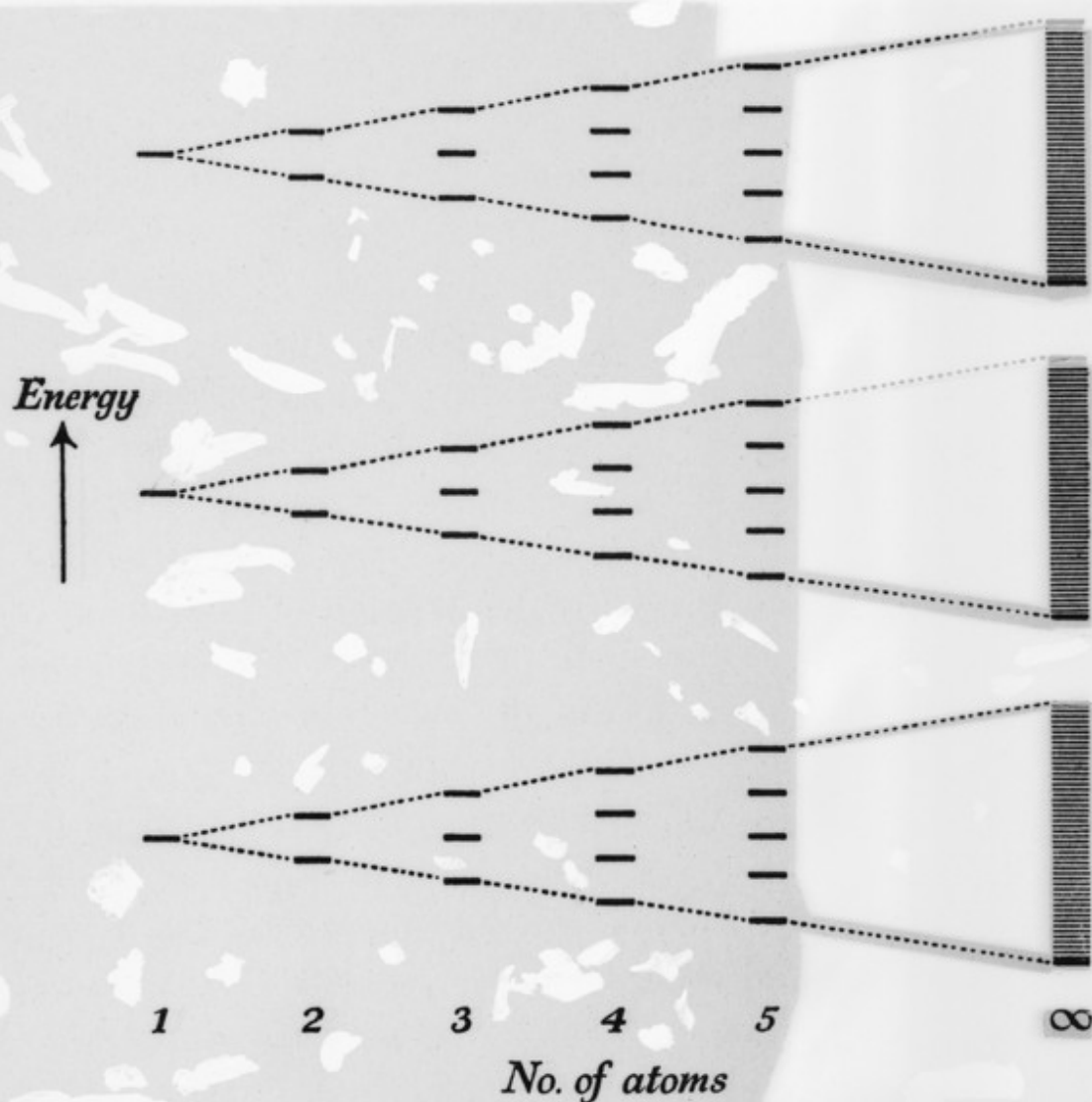
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a normal piece of ... and cracks will usually mean that each monocrystalline unit is a lot smaller than this), the levels are so close together that we are justified in calling them a continuum. If the separate atomic energies (e.g. $2s$ and $2p$ of lithium) are well separated, or if the distance between adjacent atoms is so great that there is no appreciable overlapping



The building-up of energy bands by repeated addition of one more atom.

between neighbouring a.o.'s, the separate bands of energies will remain distinct. But if the original atomic energies are close together, or if neighbouring atoms are sufficiently near to each other, then the bands may lose their individuality and merge into one another. In rough terms this means that the a.o.'s must not