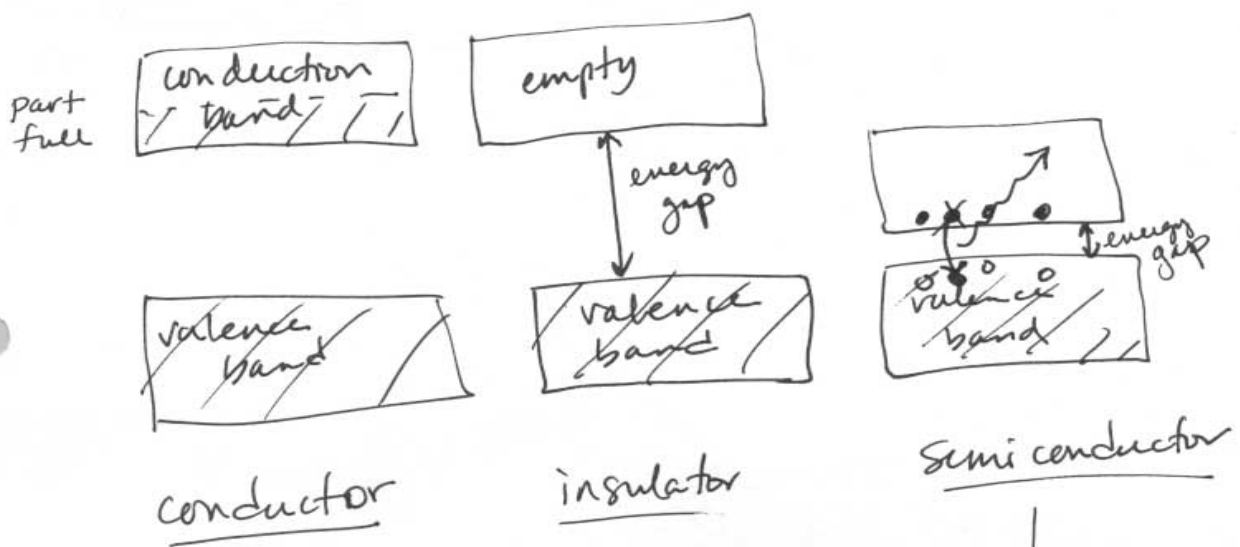


# Band model of Conductors, Insulators, Semi-conductors

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also like a simplified LED model:

$$E_{\text{photon}} = \frac{hc}{\lambda} \geq E_{\text{gap}}$$