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1 electrons in atom exist in stationary states 2 electrons move between stationary states by absorbing or emitting a quantum of em radiation 3 the angular momentum of electron in a stationary state is quantized in integral values of  $\hbar \cdot 2\pi$  this model cannot explain more complicated systems of atoms and is a big simplification

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this phenomenon is called electromagnetic induction when the movement of the wire is perpendicular to the magnetic field the emf  $\epsilon$  induced is given by  $\epsilon = bvl$  where  $b$  is the magnetic field  $v$  is the velocity of the wire and  $l$  is the length of the wire magnetic flux and magnetic flux linkage

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