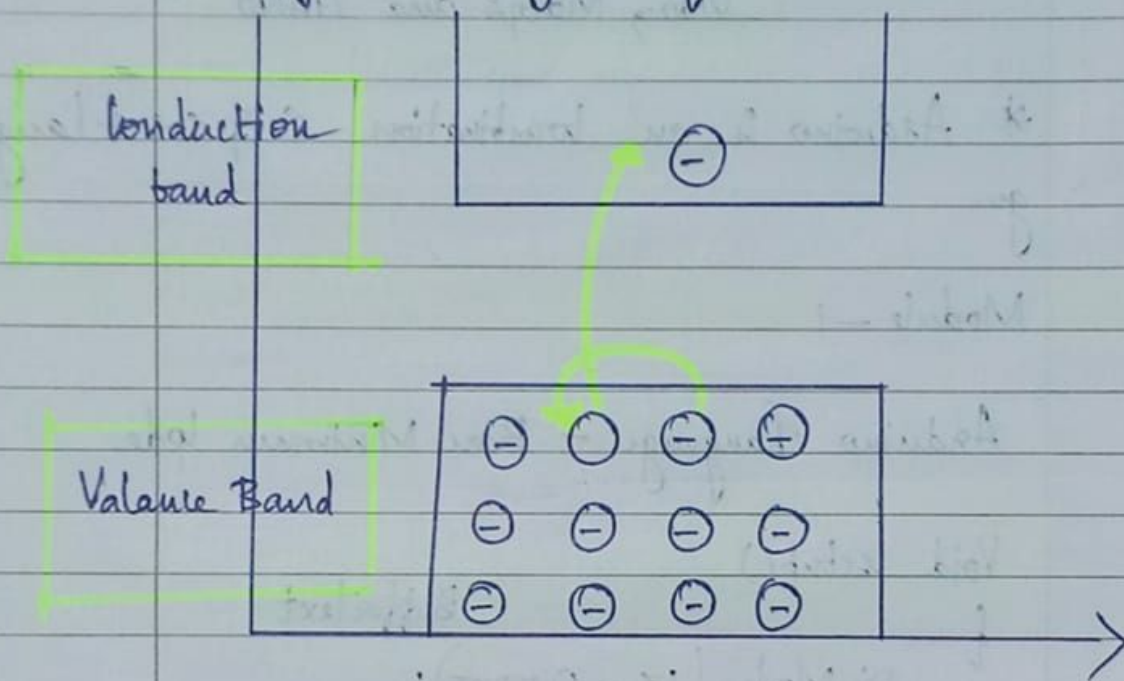


Module-2

How Does an LED Work?

- LED stands for light emitting diode
- Before getting to understand the concepts we'll try to learn about semiconductor.

Energy band diagram of an Intrinsic Semiconductor

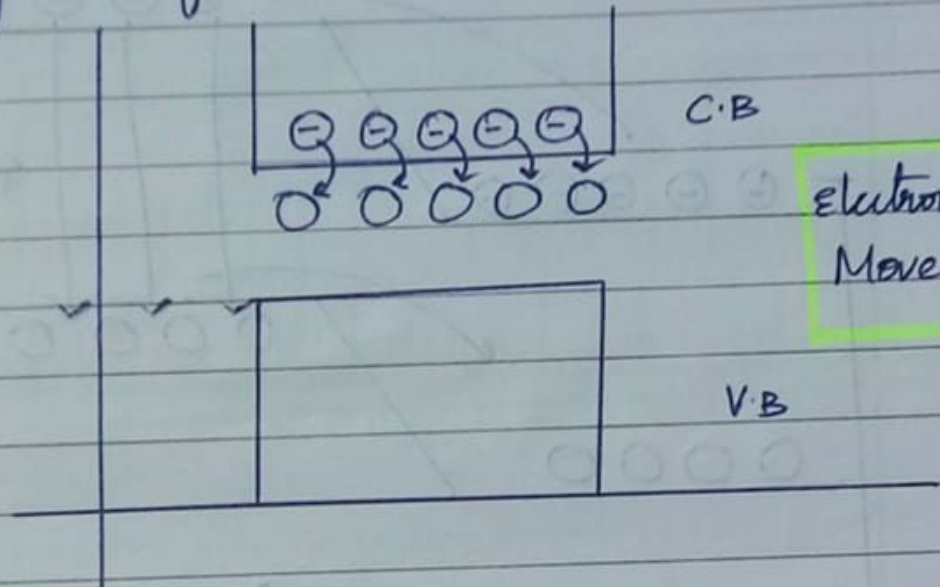


- When the temperature is increases, the electrons from the Valance Band move to conduction band.

- And the hole is occupied by neighbouring electrons.

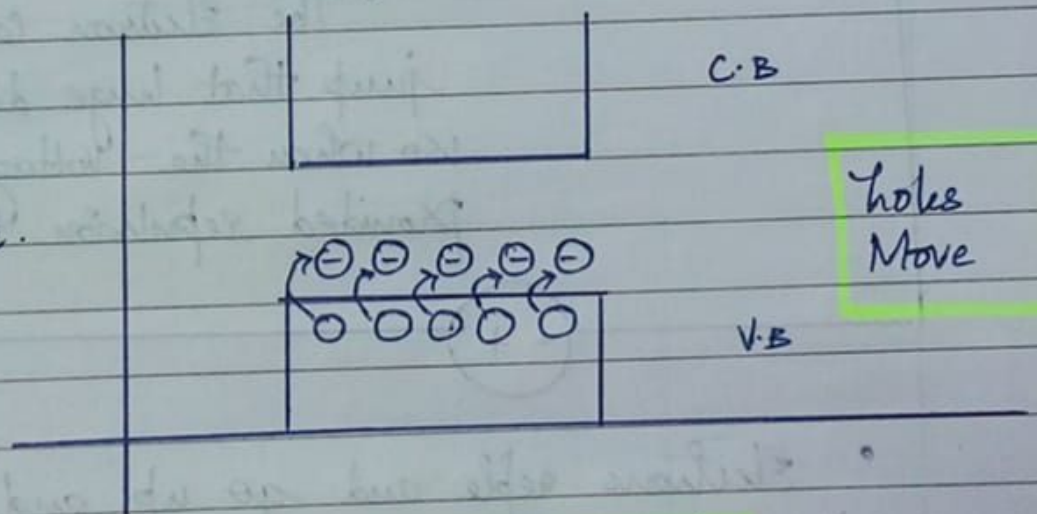
Energy band of Extrinsic semiconductor

N-type



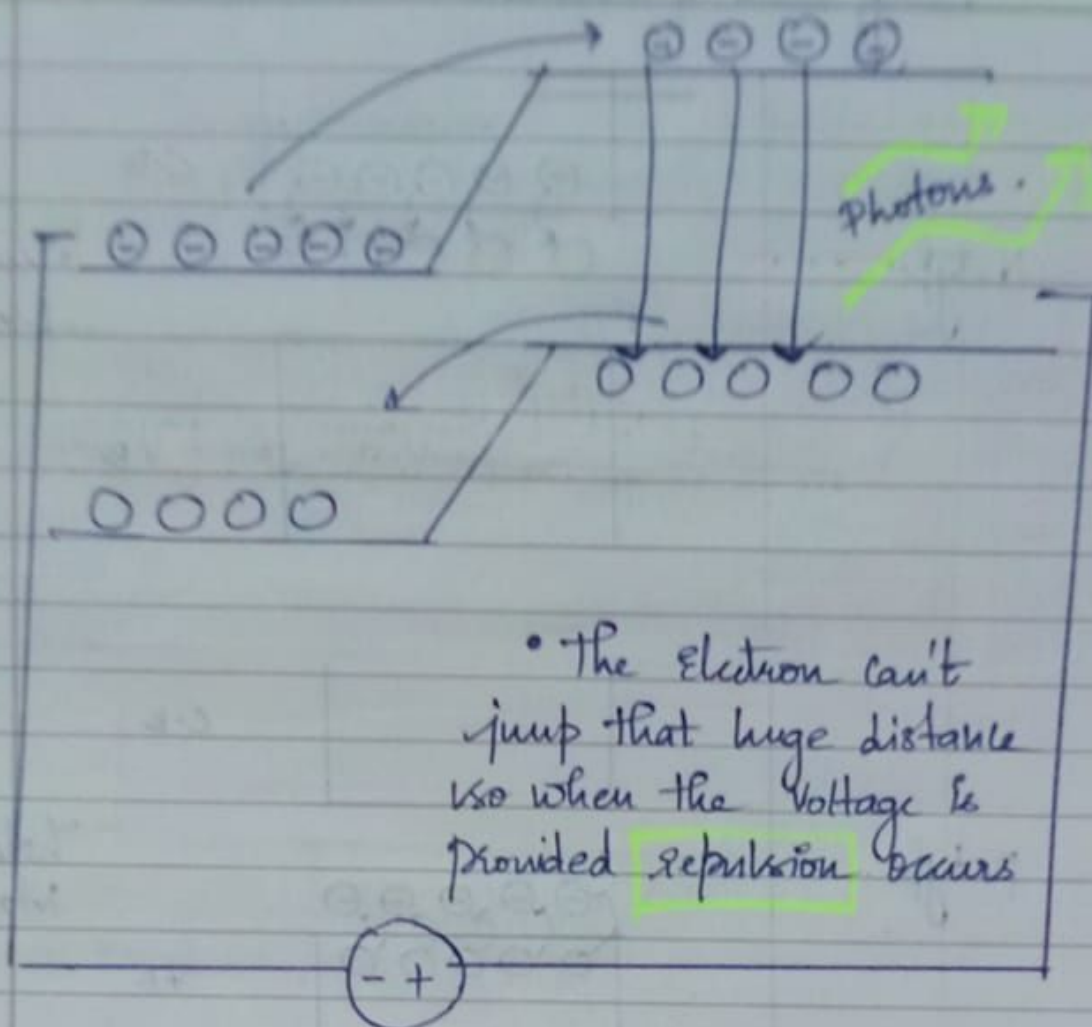
electrons
Move

P-type



Holes
Move

little on solid
state physics.



• The electron can't jump that huge distance so when the voltage is provided repulsion occurs

• Electrons reple and go up and holes reple and go down.

• Electrons and holes recombine. This is called as electron-hole recombination

• And the Energy is produced as photons