

Depending on electrical conduction properties of different materials they can be classified as:

(a) Insulators (b) Semi-conductors (c) Conductors

(1) Insulator: Poor conductor of electricity is called Insulator.

ex → Rubber, Glass

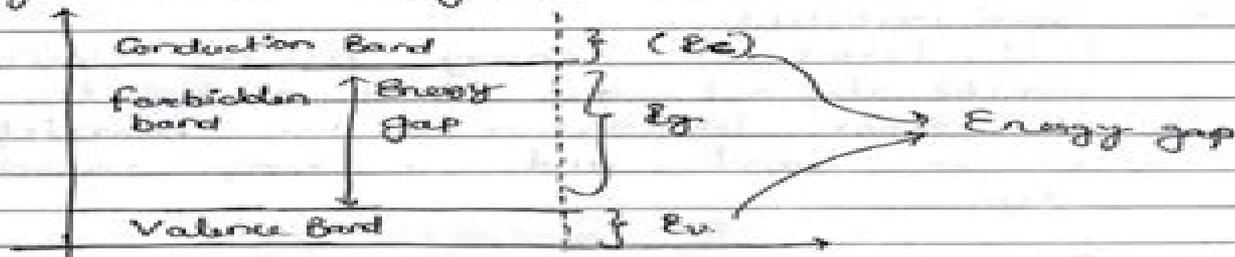
(2) Conductor: an excellent conductor of electricity.

ex → Copper, Gold

(3) Semi-conductor: It is a material whose electrical conductivity lies b/w insulator and conductor.

ex → Germanium, Silicon

### • Energy Band Diagram



**Valence Band:** The energy band which has the valence electron which is present in the outer most shell of a electron.

→ The valence electron when provided sufficient energy gets changes in free electron and moves to conduction band and cause conductivity.

→ This 2 band are separated by a certain amount of energy known as forbidden energy gap.

# Basic Electronics Notes For Engineering 1st Sem

**Chao Zhang**



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