

Semiconductor Electronics : Materials, Devices & Simple Circuits

Classification of Metals, Conductors and Semiconductors :-

On the basis of conductivity -

On the basis of the relative values of electrical conductivity (σ) or resistivity ($\rho = 1/\sigma$), the solids are broadly classified as :

- (i) Metals :- They possess very low resistivity (or high conductivity).

$$\rho \sim 10^{-2} - 10^{-8} \Omega m$$

$$\sigma \sim 10^2 - 10^8 S m^{-1}$$

- (ii) Semiconductors :-

They have resistivity or conductivity intermediate to metals and insulators.

$$\rho \sim 10^{-5} - 10^6 \Omega m$$

$$\sigma \sim 10^5 - 10^{-6} S m^{-1}$$

- (iii) Insulators :- They have high resistivity (or low conductivity).

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L Cohen



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