

Current Electricity [Formula Sheet]

$$I = \frac{Q}{t} \quad I = \frac{dQ}{dt} \quad I = \frac{ev}{2\pi r}$$

Ohm's Law $V \propto I$

$$\frac{V}{I} = R \quad (\text{Resistance}) \rightarrow \text{ohm}$$

Factors affecting Resistance

$$R = \frac{\rho L}{A}$$

Resistivity (ρ)

$$\rho = \frac{AR}{L} \rightarrow \Omega m$$

Current Density (j)

$$j = \frac{I}{A} \rightarrow A/m^2$$

$$I = j \cdot \vec{A} = j A \cos \theta$$

Conductance (G)

$$G = \frac{1}{R} \rightarrow \text{ohm}^{-1} \text{ or mho or Siemens (S)}$$

Conductivity (σ)

$$\sigma = \frac{1}{\rho} \rightarrow \text{ohm}^{-1} m^{-1} \text{ or mho/m or } S m^{-1}$$

Vector form of Ohm's Law

$$\vec{j} = \sigma \vec{E}$$

Relation b/w V_d & τ

$$V_d = \frac{e E \tau}{m} = a \tau = \frac{q E \tau}{m}$$

Relation b/w I & V_d

$$I = neAV_d$$

Relation b/w R & τ

$$R = \frac{mL}{ne^2 A \tau}$$

Relation in terms of e^- density & τ ^(m)

$$\rho = \frac{m}{ne^2 \tau}$$

Conductivity

$$\sigma = \frac{ne^2 \tau}{m}$$

Mobility of Charge Carrier (μ)

$$\mu = \frac{V_d}{E} = \frac{q E \tau}{m E}$$

Relation b/w I & μ

$$I = neA \mu E$$

Relation b/w σ & μ

$$\sigma = nq\mu$$

Temp. dependence of resistance

$$\alpha = \frac{R_2 - R_1}{R_1 (t_2 - t_1)}$$

Relation b/w Emf, V and r

$$I = \frac{E}{R + r}$$

$$V = E - Ir$$

$$V = \frac{E}{R + r} \cdot R \quad \lambda = \left(\frac{E - V}{V} \right) \cdot R$$

Heating Effect

$$H = Vit = i^2 R t = \frac{V^2}{R} t$$

Electric Power

$$P = Vi = \frac{V^2}{R} = i^2 R = \frac{W}{t}$$

Electric Energy

$$E = P \times t$$

Efficiency of cell (η)

$$\eta = \frac{\text{Output power}}{\text{Input power}} \times 100\%$$

Current Notes Physics

S Ashworth



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