

# Current Electricity [formula Sheet]

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

Ohm's Law  $V \propto I$

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

↑ ohm

Factors affecting Resistance

$$R = \frac{ne}{A}$$

Resistivity ( $\rho$ )

$$\rho = \frac{RA}{l} \rightarrow \text{rm}$$

Current Density ( $j$ )

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

$$I = j \cdot A = jA \cos \theta$$

Conductance ( $G$ )

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

Conductivity ( $\sigma$ )

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

Vector form of Ohm's Law

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

Relation b/w  $Vd$  &  $\tau$

$$Vd = \frac{eEc}{m} = \alpha \tau = \frac{qEc}{m}$$

Relation b/w  $I$  &  $Vd$

$$I = \sigma A Vd$$

Relation b/w  $R$  &  $\tau$

$$R = \frac{m}{n e^2 A \tau}$$

Relation in terms of e-density &  $\tau$  (n)

$$\sigma = \frac{m}{n e^2 \tau}$$

$$\text{Conductivity } \sigma = \frac{n e^2 \tau}{m}$$

Mobility of Charge Carrier (M)

$$M = \frac{Vd}{E} = \frac{qEc}{mE}$$

Relation b/w  $I$  &  $M$

$$[I = n e A M E]$$

Relation b/w  $\sigma$  &  $M$

$$\sigma = n q M$$

Temp. dependence of resistance

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

Relation b/w Emf,  $V$  and  $\tau$

$$i = \frac{e}{R + \tau} \quad V = e + i \tau = e - i \tau$$

$$V = \frac{e}{R + \tau} \cdot R \quad \tau = \left( \frac{e - V}{V} \right) \cdot R$$

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 emf ( $\eta$ )

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

# Current Notes Physics

**S Ashworth**

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