CURRENT ELECTRICITY

FORMULAE

1. Electric current $I = \frac{q}{t} = \frac{ne}{t}$

Where-I-Strength of current; q - charge; t time.

2. Resistance $R = \frac{V}{I}$. Conductance $G = \frac{1}{R}$

Where - V - potential difference, i - current

3. Resistance $R = \frac{\rho l}{A} = \frac{\rho l}{\pi r^2}$

Where - R - Resistance of the wire; ρ-Resistivity or specific resistance, l-length of the wire, A - area of cross section of the wire

Variation of resistance with temperature:

$$R_{\gamma} = R_{\alpha} \left[1 + \alpha \left(t \right) \right]$$

$$\Rightarrow \alpha = \frac{R_{c} - R_{c}}{R_{c}(t)} / {^{\circ}C}$$

$$\alpha = \frac{R_1 - R_1}{R_1(t_1 - t_1)} / {}^{\circ}C$$

Where $-R_i$ - resistance at temperature $t^{\alpha}C$, R_0 - resistance at temperature $0^{\alpha}C$, α - temperature coefficient of resistance.

S. Variation of resistivity with temperature :

$$\rho_{t} = \rho_{0} \left[1 + \alpha \left(t \right) \right] \Rightarrow \alpha = \frac{\rho_{t} - \rho_{0}}{\rho_{0} \left(t \right)} / {}^{\circ}C$$

Where $-\rho_r$ - resistivity at $t^{\circ}C$, ρ_b - resistivity at $0^{\circ}C$, α - temperature coefficient of resistivity.

Conductivity = Reciprocal of resistivity.

i.e.
$$\sigma = \frac{1}{\rho}$$

Where $-\sigma$ - conductivity, ρ -resistivity.

 Terminal voltage : Case - 1 : When battery is delivering current

$$V = E - ir$$
 or $i = \frac{E}{R + r}$

Where - V - terminal P.D., E - emf of the cell, r-internal resistance of the cell, R - external resistance.

Case - 2: When battery is charging V = E + ir

- 8. Kirchhoff's laws:
 - i) Kirchhoff's first law : \(\sum_i = 0\) at any junction.
 - ii) Kirchhoff's second law ; \(\sum_{i} i R = 0 \) in a closed circuit.
- 9. The balancing condition for wheat stone bridge is $\frac{P}{Q} = \frac{R}{S}$, Where P, Q, R and S are the resistances in the bridge.
- 10. Meter Bridge :

$$i) \frac{x}{R} = \frac{l_1}{l_2} \Longrightarrow \frac{x}{R} = \frac{l_1}{(100 - l_1)}$$

Where - x - unknown resistance of given wire, R - resistance in the resistance box, I₁ - balancing length from left end of the bridge to Jockey.

ii)
$$\rho = \frac{xA}{l} = x\frac{\pi r^2}{l}$$

Where $-\rho$ - resistivity of the wire, xresistance of wire, A - Area of cross section of the wire, l - length of the wire.

- Potentio Meter:
 emf of the cell in the secondary circuit
 E = I \rho I
 - i) Comparision of emfs of two cells: $\frac{E_1}{E_2} = \frac{l_1}{l_2}$

Where $-E_1$ - emf of first cell, E_2 - emf of second cell, I_1 and I_2 - the balancing lengths of individual cells respectively.

ii) For determination of internal resistance of a cell;

Notes Class 12th Physics Chapter Current Electricity

Arshad Iqbal

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