

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
4. **Variation of resistance with temperature:**
 $R_T = R_0 [1 + \alpha (t)]$
 $\Rightarrow \alpha = \frac{R_t - R_0}{R_0 (t)} / ^\circ C$
 $\alpha = \frac{R_2 - R_1}{R_1 (t_2 - t_1)} / ^\circ C$
Where - R_t - resistance at temperature $t^\circ C$, R_0 - resistance at temperature $0^\circ C$, α - temperature coefficient of resistance.
5. **Variation of resistivity with temperature :**
 $\rho_t = \rho_0 [1 + \alpha (t)] \Rightarrow \alpha = \frac{\rho_t - \rho_0}{\rho_0 (t)} / ^\circ C$
Where - ρ_t - resistivity at $t^\circ C$, ρ_0 - resistivity at $0^\circ C$, α - temperature coefficient of resistivity.
6. Conductivity = Reciprocal of resistivity.
i.e. $\sigma = \frac{1}{\rho}$
Where - σ - conductivity, ρ - resistivity.
7. **Terminal voltage :**
Case - 1 : When battery is delivering current

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

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 : $\sum iR = 0$ 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 :**

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

Where - x - unknown resistance of given wire, R - resistance in the resistance box, l_1 - balancing length from left end of the bridge to Jockey.

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

Where - ρ - resistivity of the wire, x - resistance of wire, A - Area of cross section of the wire, l - length of the wire.

11. **Potential Meter :**

emf of the cell in the secondary circuit
 $E_x = I \rho l$

$$i) \text{Comparison of emfs of two cells: } \frac{E_1}{E_2} = \frac{l_1}{l_2}$$

Where - E_1 - emf of first cell, E_2 - emf of second cell, l_1 and l_2 - the balancing lengths of individual cells respectively.

ii) For determination of internal resistance of a cell :

Physics Chapter Electricity Class 1

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