

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 :

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Notes Class 12th Physics Chapter Current Electricity:

Notes Class 12th Physics Chapter Current Electricity Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Notes Class 12th Physics Chapter Current Electricity**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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