

**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;  $\rho$  - 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  $0^\circ C$ ,  $\alpha$  - 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 -  $\rho_t$  - resistivity at  $t^\circ C$ ,  $\rho_0$  - resistivity at  $0^\circ C$ ,  $\alpha$  - temperature coefficient of resistivity.
6. Conductivity = Reciprocal of resistivity.  
i.e.  $\sigma = \frac{1}{\rho}$   
Where -  $\sigma$  - conductivity,  $\rho$  - 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 -  $\rho$  - 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 :

# Notes Class 12th Physics Chapter Current Electricity

**Lei Huang**



## **Notes Class 12th Physics Chapter Current Electricity:**

## Reviewing **Notes Class 12th Physics Chapter Current Electricity**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Notes Class 12th Physics Chapter Current Electricity**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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