

**CURRENT ELECTRICITY****FORMULAE**

- Electric current  $I = \frac{q}{t} = \frac{n e}{t}$   
Where - I - Strength of current; q - charge; t - time.
- Resistance  $R = \frac{V}{i}$ , Conductance  $G = \frac{1}{R}$   
Where - V - potential difference, i - current
- 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
- Variation of resistance with temperature:**  
 $R_t = R_0 [1 + \alpha (t)]$   
 $\Rightarrow \alpha = \frac{R_t - R_0}{R_0 (t)}$   
 $\alpha = \frac{R_2 - R_1}{R_1 (t_2 - t_1)}$   
Where -  $R_t$  - resistance at temperature  $t^\circ C$ ,  $R_0$  - resistance at temperature  $0^\circ C$ ,  $\alpha$  - temperature coefficient of resistance.
- Variation of resistivity with temperature :**  
 $\rho_t = \rho_0 [1 + \alpha (t)] \Rightarrow \alpha = \frac{\rho_t - \rho_0}{\rho_0 (t)}$   
Where -  $\rho_t$  - resistivity at  $t^\circ C$ ,  $\rho_0$  - resistivity at  $0^\circ C$ ,  $\alpha$  - temperature coefficient of resistivity.
- Conductivity = Reciprocal of resistivity.  
i.e.  $\sigma = \frac{1}{\rho}$   
Where -  $\sigma$  - conductivity,  $\rho$  - resistivity.
- Terminal voltage :**  
**Case - 1 :** When battery is delivering current

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

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  
 $V = E + i r$

- Kirchhoff's laws :**
  - Kirchhoff's first law :  $\sum i = 0$  at any junction.
  - Kirchhoff's second law :  $\sum i R = 0$  in a closed circuit.
- 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.
- 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.

- Potential Meter :**  
emf of the cell in the secondary circuit  
 $E_x = I \rho l$

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

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 :

# Current Electricity Formulas Class 12

**ML Morrison**



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## **Table of Contents Current Electricity Formulas Class 12**

1. Understanding the eBook Current Electricity Formulas Class 12
  - The Rise of Digital Reading Current Electricity Formulas Class 12
  - Advantages of eBooks Over Traditional Books
2. Identifying Current Electricity Formulas Class 12
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Current Electricity Formulas Class 12
  - User-Friendly Interface
4. Exploring eBook Recommendations from Current Electricity Formulas Class 12
  - Personalized Recommendations
  - Current Electricity Formulas Class 12 User Reviews and Ratings
  - Current Electricity Formulas Class 12 and Bestseller Lists
5. Accessing Current Electricity Formulas Class 12 Free and Paid eBooks

- Current Electricity Formulas Class 12 Public Domain eBooks
  - Current Electricity Formulas Class 12 eBook Subscription Services
  - Current Electricity Formulas Class 12 Budget-Friendly Options
6. Navigating Current Electricity Formulas Class 12 eBook Formats
    - ePub, PDF, MOBI, and More
    - Current Electricity Formulas Class 12 Compatibility with Devices
    - Current Electricity Formulas Class 12 Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Current Electricity Formulas Class 12
    - Highlighting and Note-Taking Current Electricity Formulas Class 12
    - Interactive Elements Current Electricity Formulas Class 12
  8. Staying Engaged with Current Electricity Formulas Class 12
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Current Electricity Formulas Class 12
  9. Balancing eBooks and Physical Books Current Electricity Formulas Class 12
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Current Electricity Formulas Class 12
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Current Electricity Formulas Class 12
    - Setting Reading Goals Current Electricity Formulas Class 12
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Current Electricity Formulas Class 12
    - Fact-Checking eBook Content of Current Electricity Formulas Class 12
    - Distinguishing Credible Sources
  13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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