

RESISTANCE

Resistance is the property of a material which opposes the flow of electric current through it. It is measured in Ohms (Ω).

Factors affecting Resistance

- Length of the conductor: Resistance is directly proportional to the length of the conductor. $R \propto L$
- Area of cross-section: Resistance is inversely proportional to the area of cross-section. $R \propto \frac{1}{A}$
- Material: Resistance depends on the material of the conductor. It is represented by resistivity (ρ).
- Temperature: Resistance of most conductors increases with temperature.

$$R = \rho \frac{L}{A}$$

Where R is resistance, ρ is resistivity, L is length, and A is area of cross-section.

$$\rho = \frac{RA}{L}$$

- Resistivity of a material is a property that opposes the flow of electric current through it. It is measured in Ohm-meters ($\Omega \cdot m$).
- Resistivity of a material is constant for a given material at a given temperature.
- Resistivity of a material is independent of the shape and size of the conductor.
- Resistivity of a material is a property that opposes the flow of electric current through it.

Resistance of a conductor is the property that opposes the flow of electric current through it. It is measured in Ohms (Ω).

Combination of Resistors

- Series combination: Resistors are connected one after another. The total resistance is the sum of individual resistances. $R_{total} = R_1 + R_2 + R_3 + \dots$
- Parallel combination: Resistors are connected side by side. The reciprocal of the total resistance is the sum of the reciprocals of individual resistances. $\frac{1}{R_{total}} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3} + \dots$

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Wheatstone Bridge

- Wheatstone bridge is a circuit used to measure the resistance of a resistor. It consists of four resistors arranged in a diamond shape.
- The bridge is balanced when the ratio of the resistances in one branch is equal to the ratio in the other branch. $\frac{R_1}{R_2} = \frac{R_3}{R_4}$

Maxwell's Mesh Rule

Maxwell's mesh rule is a method for analyzing circuits with multiple loops. It involves writing equations for the voltage drops around each loop.

$$\sum V = 0$$

Where $\sum V$ is the sum of voltage drops around a closed loop.

- Resistors in series add up.
- Resistors in parallel divide up.



$$V = IR$$

Where V is voltage, I is current, and R is resistance.

For a network of resistors, the total resistance can be found by simplifying the circuit using the rules for series and parallel combinations.

Electromagnetic Induction Study Guide Answers

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