

WIRE RESISTANCE

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

- 1. Resistance depends on the material, length, area of cross-section and temperature of the conductor.
- 2. Resistance is directly proportional to the length of the conductor.
- 3. Resistance is inversely proportional to the area of cross-section of the conductor.
- 4. Resistance increases with increase in temperature.

Let R be the resistance of a wire of length L , area of cross-section A and resistivity ρ .

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

- 1. Resistivity (ρ) is the resistance of a unit length of a wire having unit area of cross-section.
- 2. Unit of resistivity is $\Omega \cdot m$.
- 3. Resistivity of a material is independent of the dimensions of the wire.
- 4. Resistivity of a material is a property of the material and is independent of the shape and size of the wire.
- 5. Resistivity of a material is independent of the length and area of cross-section of the wire.
- 6. Resistivity of a material is independent of the temperature.

Let R be the resistance of a wire of length L , area of cross-section A and resistivity ρ . Then, $R = \rho \frac{L}{A}$.

- 1. Resistance of a wire depends on the material, length, area of cross-section and temperature of the conductor.
- 2. Resistance is directly proportional to the length of the conductor.
- 3. Resistance is inversely proportional to the area of cross-section of the conductor.
- 4. Resistance increases with increase in temperature.
- 5. Resistance of a material is independent of the dimensions of the wire.

COMBINATION OF RESISTORS

- 1. Resistors are connected in series and parallel.
- 2. In series combination, the current is the same through all the resistors.
- 3. In parallel combination, the voltage is the same across all the resistors.

SERIES COMBINATION

- 1. In series combination, the current is the same through all the resistors.
- 2. The total resistance is the sum of the individual resistances.

PARALLEL COMBINATION

- 1. In parallel combination, the voltage is the same across all the resistors.
- 2. The total resistance is the reciprocal of the sum of the reciprocals of the individual resistances.

- 3. In series combination, the current is the same through all the resistors.
- 4. In parallel combination, the voltage is the same across all the resistors.



- 5. In series combination, the current is the same through all the resistors.
- 6. In parallel combination, the voltage is the same across all the resistors.
- 7. In series combination, the total resistance is the sum of the individual resistances.
- 8. In parallel combination, the total resistance is the reciprocal of the sum of the reciprocals of the individual resistances.

Electromagnetic Induction Study Guide Answers

Ensheng Dong



Electromagnetic Induction Study Guide Answers:

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