

RESISTANCE

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

- 1. **Factors affecting resistance:**
 - (a) Length of the conductor: Resistance is directly proportional to the length of the conductor. $R \propto L$
 - (b) Cross-sectional area: Resistance is inversely proportional to the cross-sectional area of the conductor. $R \propto \frac{1}{A}$
 - (c) Material: Resistance depends on the material of the conductor, which is represented by resistivity (ρ).
 - (d) Temperature: Resistance of most conductors increases with an increase in temperature.

2. **Formula for resistance:**

$$R = \frac{\rho L}{A}$$
 where R is resistance in Ohms (Ω), ρ is resistivity in Ohm-meters ($\Omega \cdot m$), L is length in meters (m), and A is cross-sectional area in square meters (m^2).

- 3. **Types of resistors:**
 - (a) Fixed resistors: Have a constant resistance value.
 - (b) Variable resistors: Can be adjusted to change resistance (e.g., potentiometers).
 - (c) Thermistors: Resistance changes with temperature.
 - (d) Photoresistors: Resistance changes with light intensity.
- 4. **Combining resistors:**
 - (a) Series: Total resistance is the sum of individual resistances. $R_{total} = R_1 + R_2 + \dots + R_n$
 - (b) Parallel: Total resistance is the reciprocal of the sum of reciprocals of individual resistances. $\frac{1}{R_{total}} = \frac{1}{R_1} + \frac{1}{R_2} + \dots + \frac{1}{R_n}$

5. **Power dissipation:** Resistors convert electrical energy into heat. Power dissipated is given by:

$$P = I^2 R$$
 where P is power in Watts (W), I is current in Amperes (A), and R is resistance in Ohms (Ω).

- 6. **Resistor color code:** Used to identify the resistance value and tolerance of a resistor.
- 7. **Resistor tolerance:** The percentage variation in resistance from the nominal value.
- 8. **Resistor standards:** E-series (E24, E96, E192) for standard resistor values.
- 9. **Resistor packaging:** Different types like through-hole, surface-mount, and thin-film.

INDUCTANCE

Inductance is the property of a circuit element that opposes a change in the current flowing through it. It is measured in Henrys (H).

- 1. **Factors affecting inductance:**
 - (a) Number of turns: Inductance is directly proportional to the square of the number of turns in the coil. $L \propto N^2$
 - (b) Cross-sectional area: Inductance is directly proportional to the cross-sectional area of the coil. $L \propto A$
 - (c) Length: Inductance is inversely proportional to the length of the coil. $L \propto \frac{1}{l}$
 - (d) Core material: Inductance is directly proportional to the permeability of the core material. $L \propto \mu$

2. **Formula for inductance:**

$$L = \frac{\mu N^2 A}{l}$$
 where L is inductance in Henrys (H), μ is permeability in Henrys per meter (H/m), N is number of turns, A is cross-sectional area in square meters (m^2), and l is length in meters (m).

- 3. **Types of inductors:**
 - (a) Solenoid inductor: Long coil of wire.
 - (b) Toroid inductor: Coil wound on a toroidal core.
 - (c) Variable inductor: Inductance can be adjusted.
 - (d) Superconducting inductor: Zero resistance.
- 4. **Combining inductors:**
 - (a) Series: Total inductance is the sum of individual inductances. $L_{total} = L_1 + L_2 + \dots + L_n$
 - (b) Parallel: Total inductance is the reciprocal of the sum of reciprocals of individual inductances. $\frac{1}{L_{total}} = \frac{1}{L_1} + \frac{1}{L_2} + \dots + \frac{1}{L_n}$



5. **Inductive reactance:** Opposition to AC current flow.

$$X_L = \omega L$$
 where X_L is inductive reactance in Ohms (Ω), ω is angular frequency in radians per second (rad/s), and L is inductance in Henrys (H).

- 6. **Impedance:** Total opposition to current flow in an AC circuit.

$$Z = \sqrt{R^2 + X_L^2}$$
 where Z is impedance in Ohms (Ω), R is resistance in Ohms (Ω), and X_L is inductive reactance in Ohms (Ω).

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web sep 30 2022 scope 1 1 this test method 2 is a small scale test for obtaining information regarding the free swelling properties of a coal the results may be used as an indication

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web apr 1 2007 astm international manual 11 provides guidelines on the drilling sampling and analysis of coal and can be modified as necessary to fit your specific needs for

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web may 19 2021 standard practice for proximate analysis of coal and coke significance and use 4 1 test methods as herein described can be used to establish the rank of coals show the ratio of combustible to incombustible constituents provide the basis for buying

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web dec 27 2016 scope 1 1 this practice covers the term ultimate analysis as it is applied to the analysis of coal and coke the information derived is intended for the general

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