

INDUCTANCE

Meaning: Inductance is the property of an electrical circuit, particularly in coils, that quantifies the induced voltage resulting from a change in electric current.

1. Inductance is a fundamental property of electrical circuits that determines how much voltage is induced in a coil when the current changes.
2. The inductance of a solenoid can be increased by adding a ferromagnetic core inside it.
3. Engineers often use inductance in designing transformers and inductors for various electronic applications.
4. Measuring the inductance of a circuit component can help diagnose issues related to signal integrity and power efficiency.
5. In alternating current circuits, inductance plays a critical role in determining the phase relationship between voltage and current.

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