

IMPEDANCE

Meaning: Impedance is the measure of opposition that a circuit presents to the flow of alternating current, influenced by resistance, inductance, and capacitance.

1. Impedance in an electrical circuit can significantly affect the flow of current.
2. Engineers often analyze the impedance of materials to improve the efficiency of devices.
3. In acoustics, impedance matching is crucial for maximizing sound transmission.
4. The impedance of a speaker can influence how well it integrates with an audio system.
5. Understanding the concept of impedance is essential for anyone working in electronics or telecommunications.

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