

Physics lab: Viva-Voce Questions and Answers

1. Series and Parallel resonance

1. What is an inductor?

A: An inductor is a passive component used to store energy in the form of a magnetic field.

2. Define resistance?

A: The opposition offered to the flow of D.C. by a component in a circuit is called resistance.

3. Define impedance, inductive reactance and capacitive reactance.

A: Impedance (Z): The resistance offered to the flow of A.C. by a component in a circuit is called impedance.

Inductive reactance (X_L): The opposition offered by an inductor to the flow of AC in an AC circuit is $X_L = \omega L$ is called inductive reactance.

Capacitive reactance (X_C): The opposition offered by an capacitor to the flow of AC in an AC circuit is $X_C = 1/\omega C$ is called Capacitive reactance.

4. Define impedance offered by inductance in an AC circuit.

A: It is the inductive reactance, $X_L = 2\pi fL$. Where 'f' is the frequency of the A.C. supply in Hertz and L is the inductance in Henry.

5. Define impedance offered by capacitance in an AC circuit.

A: It is the capacitive reactance, $X_C = 1/2\pi fC$. Where C is the capacitance in Farad and f is the frequency.

6. Explain acceptor and rejecter circuits?

A: the LCR resonance series circuit called acceptor circuit because in LCR series circuit, at resonance, the impedance in the circuit is minimum and the current is maximum.

the LCR resonance parallel circuit called rejecter circuit because in LCR parallel circuit, at resonance, the impedance in the circuit is maximum and the current is minimum.

7. Explain resonance in electrical circuits.

A: The condition at which applied frequency from the oscillator and natural frequency of LCR combination becomes equal is called resonance.

8. Define the resonant frequency of an LCR circuit.

A: The frequency at which both the reactance $X_L = X_C$ becomes zero is called resonant frequency is, $X_L = X_C$.

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Lingjun Ying



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