

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, $X_L = X_C$.

Engineering Physics Lab Viva Questions And Answers

Chandra Mohan Singh Negi



Engineering Physics Lab Viva Questions And Answers:

Physics Practical for Engineers with Viva-Voce Chandra Mohan Singh Negi, 2018-06-30 This is one of enumerable self help or how to books with an emphasis on Engineering Physics Practical The basic premise of the book is that there are certain simple experiments involving no more than rudimentary Physics laws and the very basic laws of Engineering Physics for undergraduate college engineering students But these practical are often not done or taken lightly for several reasons First people don't realize how easy they are to do Second and more fundamental they are not done because it does not occur to people to do them Finally and tragically no one in their elementary middle or high school educational experience has stressed the importance of doing them and of course neither did they teach to do them This book is to reveal to you what the experiments are make them readily understandable and by means of a very easy to use illustrations The main thing you should expect from this book is the theories and practical related small information more precisely about experiments You will get a rudimentary understanding of the basic concepts behind the Engineering Physics experiment that governs the fundamental daily life questions that challenge us in life The book is divided into seven major categories and Fifteen chapters In this book the students will find solutions to experimental obstacles normally faced by undergraduate college engineering students In summary you don't need any special background or ability to profit from this book

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KEY FEATURES Contains aim components and equipment required theory circuit diagram pin outs of active devices design tables graphs alternate circuits and troubleshooting techniques for each experiment Includes viva voce and examination questions with their answers Provides exposure on various devices

TARGET AUDIENCE B Tech Electronics and Communication Engineering Electrical and Electronics Engineering Biomedical Electronics Instrumentation and Control Computer Science and Applied Electronics BSc MSc Physics Diploma Engineering

Respecifying Lab Ethnography Philippe Sormani, 2016-04-08 *Respecifying Lab Ethnography* delivers the first ethnomethodological study of current experimental physics in action describing the disciplinary orientation of lab work and exploring the discipline in its

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