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Electrical and electronics - Circuit Theory - Important Short Answers and Questions: Basic Circuits Analysis. 1. Define charge. The total deficiency or addition of excess electrons in an atom is called its charge. Constant charge is denoted by letter Q and charge varying with time is denoted by q or q (t). Unit of charge is coulomb.

Important Short Questions and Answers: Basic Circuits Analysis

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For alternating electric current form factor is defined as the ratio of

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rms value and average value of alternating current. Now the rms value of alternating electric current = $0.707 \times$ maximum value of alternating current. Average value of alternating electric current = $0.637 \times$ maximum value of alternating current. So from factor = $0.707 / 0.637 = 1.11$.

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An RLC circuit carries an electrical circuit consisting of a resistor (R) and inductor (L) and a capacitor (C), connected in parallel or series. This circuit is called a second order circuit as any voltage or current in the circuit can be described by a second order differential equation.

20 Electrical Engineering Interview Questions & Answers

In electrical circuit theory, a circuit $C(t)$ is called a linear circuit if it satisfies the superposition principle given by $C(at_1 + bt_2) = aC(t_1) + bC(t_2)$, where a, b are constants. Show that the Concept:

Identifying the Graphs of Linear, Quadratic, Cubic and Reciprocal Functions.

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In electrical circuit theory, a circuit $C(t)$ is called a ...

Electrical Circuit Theory and Technology

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When doing circuit analysis, you need to know some essential laws, electrical quantities, relationships, and theorems. Ohm's law is a key device equation that relates current, voltage, and resistance. Using Kirchhoff's laws, you can simplify a network of resistors using a single equivalent resistor. You can also do the same type of calculation to obtain [...]

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Electrical resistance, measured in Ohms, is the measure of the amount of current repulsion in a circuit. Simply, resistance resists current flow. When electrons flow against the opposition offered by resistance in the circuit, friction occurs and heat is produced.

Basic Electrical Theory | Ohms Law, Current, Circuits & More

A parallel connection is a type of electrical circuit in which there is a single current pathway. Electrical Circuits DRAFT. 5th - University grade. 4034 times. Physics. 73% average accuracy. 4 years ago. ... 45 Questions Show answers. Question 1 . SURVEY . 10 seconds . Q. An electric circuit is a closed loop or pathway that allows electric ...

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Circuits and Circuit Theory MCQ test - Set 07 MCQ AC Circuits Edit Practice Test: Question Set - 07 . 1. A pure capacitor connected across an A.C. voltage consumed 50 W. ... Results in more power losses in the electrical system (C) Overloads alternators, transformers and distribution lines (D) Results in all above ... Question Set - 10 1. Young ...

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Everything about Circuit Theory. We explain basic circuit theory and networks, circuit analysis, two port networks, matrixes, RL circuits, and more.

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A.C. Fundamentals, Circuits and Circuit Theory Questions :-1. A sine wave has a frequency of 50 Hz. Its angular frequency is _____ radian/second. (a) 100 n (b) 50 jt (c) 25 JT (d) 5 n Ans: a. 2. The reactance offered by a capacitor to alternating current of frequency 50 Hz is 20 Q. If frequency is increased to 100 Hz, reactance becomes _____ohms. (a) 2.5 (b) 5

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