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Electric circuits are used in numerous electrical systems to accomplish different tasks. Our objective in this book is not the study of various uses and applications of circuits. Rather, our major concern is the analysis of the circuits. By the analysis of a circuit, we mean a study of the behavior of the circuit: How does it respond to a ...

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Solutions to the problems in Circuit Theory

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E1.1 Circuit Analysis Problem Sheet 1 (Lectures 1 & 2) Key: [A]= easy ... [E]=hard 1. [A] One of the following circuits is a series circuit and the other is a parallel circuit. ... E1.1 Circuit Analysis Problem Sheet 2 - Solutions Note: In many of the solutions below I have written the voltage at node X as the variable X instead of V_X in order ...

E1.1 Circuit Analysis Problem Sheet 1 (Lectures 1 & 2)

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The nodal analysis starts with selecting one of the nodes as the ... if there are N nodes in the circuit there will be $N - 1$ linearly independent equations in general. The solution of this set of equations yields the $N - 1$ unknown node voltages. These node voltages can be used with the Ohm's law to determine all ... Introduction to Electric ...

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General Solution for RLC Circuit We assume steady state solution of form $I_m \sin(\omega t - \phi)$ is current amplitude ϕ is phase by which current lags the driving EMF Must determine I_m and ϕ Plug in solution: differentiate & integrate $\sin(\omega t - \phi)$ if $t = m \sin(\omega t - \phi) \cos \sin \cos \sin(\omega t - \phi) = I_m \sin(\omega t - \phi)$

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