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- Basic Concepts and Definitions
- Analysis of Simple Circuits
- Nodal and Mesh Equations - Circuit Theorems
- Introduction to Operational Amplifiers
- Inductance and Capacitance

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- Sinusoidal

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Analysis I is the first course that the students take in Electrical Engineering Technology and the dropout rate is high in this course because students lose interest in just solving problems and analyzing them using simulation software packages. The predesigned

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And yes, that typically involves solving the circuit equations by hand first. This is mostly helpful when doing tolerance analysis and sensitivity analysis on the circuit. There is a book on the subject "Tolerance Analysis of Electronic Circuits

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Using MATLAB Dr. Jai P. Agrawal, Purdue University Northwest Jai P. Agrawal is a professor in electrical and computer engineering technology at Purdue University, Calumet. He received his Ph.D. in electrical engineering from University of Illinois, Chicago, in 1991, dissertation in power electronics.

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The following examples illustrate the use of Matlab for solving problems related to RC circuits. Example 1 - Charging circuit. Assume that for the charging RC circuit above $V_s = 10$ volts and $C = 10$ microfarads. Plot the voltage across the

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capacitor if R equals 5k ohm, 10k ohms and 20k ohms.

RC circuit - Transient analysis with Matlab

Circuit analysis, or solving a circuit, means figuring out voltages and currents in each element. This course starts off covering how to design your

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DC circuits using MATLAB SIMULINK and compute all required parameters. This course will help you to revise the basics of direct current analysis and be skilled in using MATLAB SIMULINK.

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great for anyone who wishes to learn Circuit Analysis. Both books are straight and to the point in explaining theory. Ample amounts of examples and problems test one's understanding of this material. The integration of MATLAB use into the subject is well done.

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plugins. Determine the voltage across the capacitor: Let us compute the voltage across the capacitor for $t \geq 0$ using the following expression:

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using Matlab. Mesh Analysis using Matlab | Loop Analysis using Matlab. Want create site? Find Free WordPress Themes and plugins. In this tutorial, we will find current which is flowing through resistor R B and the power supplied by the voltage source of 10V.

Mesh Analysis using Matlab | Loop

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