

Computer Simulated Experiments for Electric Circuits Using Electronics Workbench Multisim

By Richard H. Berube

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This unique and innovative laboratory manual helps readers learn and understand circuit analysis concepts by using Electronic Workbench software to simulate actual laboratory experiments on a computer. Users work with circuits drawn on the computer screen and with simulated instruments that act like actual laboratory instruments. Circuits can be modified easily with on-screen editing, and analysis results provide fast, accurate feedback. Â¿Hands-onÂ¿ in approach throughoutâ€”in both interactive experiments and a series of questions about the results of each experimentâ€”it is more cost effective, safer, and more thorough and efficient than using hardwired experiments. Uses *MulitiSim* to simulate dc and ac electric circuit experiments on a computer screen using simulated instruments to make circuit measurements, recreating a real laboratory environment. A materials list and circuit diagrams is included in each experiment so that the experiments can be used in a hardwired laboratory environment in addition to the computer simulations. **Experiment Theory** sections contain all of the technical information needed to do the calculations and answer the questions. A series of circuits with faults is stored on the accompanying disk and is included at the end of many of the experiments. For the assistance in the study of Electric Circuits.

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