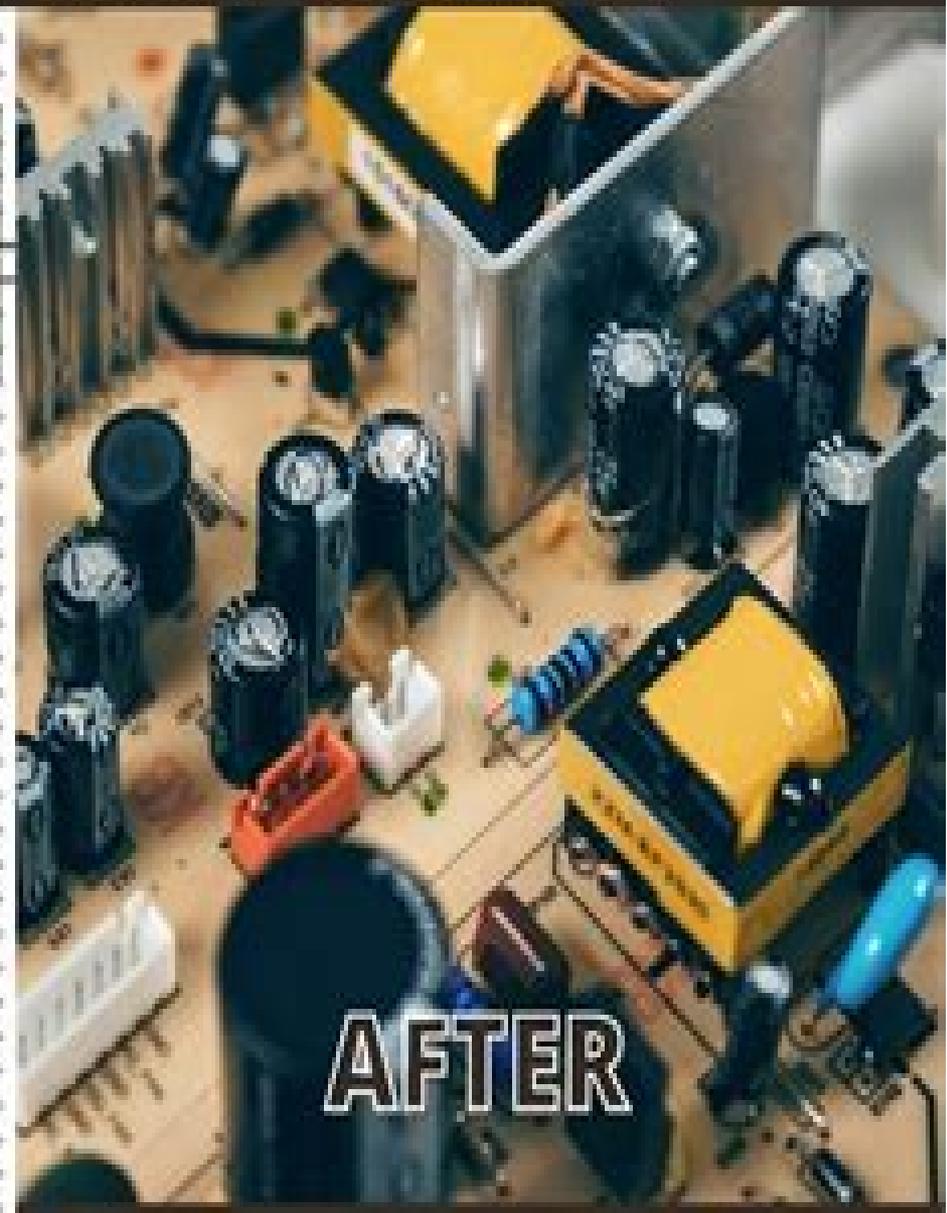
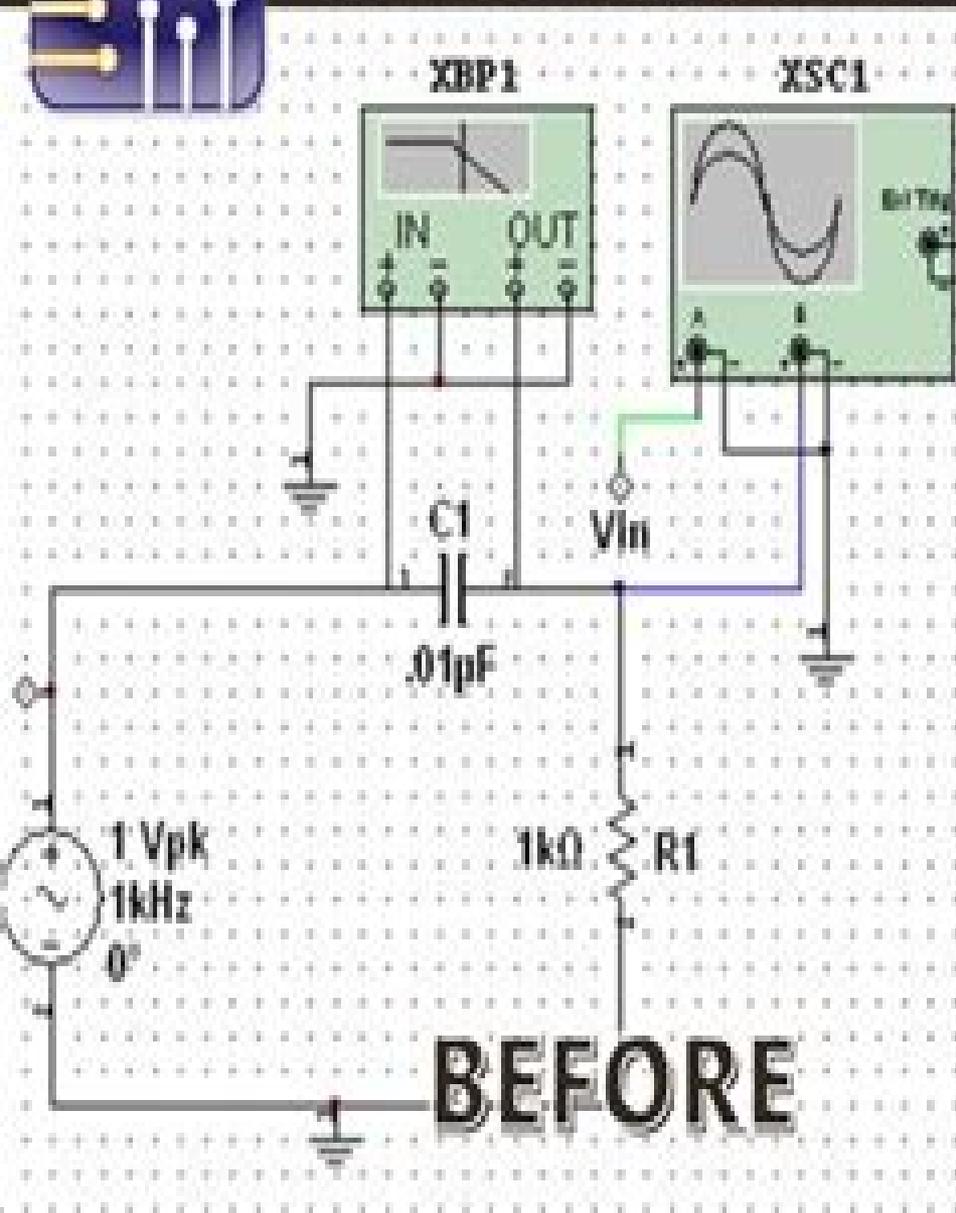




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Advanced Circuit Simulation using Multisim Workbench David Baez-Lopez, Félix E. Guerrero-Castro, Ofelia Delfina Cervantes-Villagómez, 2012-02-01 Multisim is now the de facto standard for circuit simulation. It is a SPICE based circuit simulator which combines analog discrete time and mixed mode circuits. In addition, it is the only simulator which incorporates microcontroller simulation in the same environment. It also includes a tool for printed circuit board design. **Advanced Circuit Simulation Using Multisim Workbench** is a companion book to **Circuit Analysis Using Multisim** published by Morgan Claypool in 2011. This new book covers advanced analyses and the creation of models and subcircuits. It also includes coverage of transmission lines, the special elements which are used to connect components in PCBs and integrated circuits. Finally, it includes a description of Ultiboard, the tool for PCB creation from a circuit description in Multisim. Both books completely cover most of the important features available for a successful circuit simulation with Multisim. **Table of Contents**
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Analog Integrated Circuits for Communication Donald O. Pederson, Kartikeya Mayaram, 2007-10-04 **Analog Integrated Circuits for Communication Principles Simulation and Design Second Edition** covers the analysis and design of nonlinear analog integrated circuits that form the basis of present day communication systems. Both bipolar and MOS transistor circuits are analyzed and several numerical examples are used to illustrate the analysis and design techniques developed in this book. Especially unique to this work is the tight coupling between the first order circuit analysis and circuit simulation results. Extensive use has been made of the public domain circuit simulator Spice to verify the results of first order analyses and for detailed simulations with complex device models. Highlights of the new edition include a new introductory chapter that provides a brief review of communication systems transistor models and distortion generation and simulation. Addition of new material on MOSFET mixers, compression and intercept points, matching networks. Revisions of text and explanations where necessary to reflect the new organization of the book. Spice input files for all the circuit examples that are available to the reader from a website. Problem sets at the end of each chapter to reinforce and apply the subject matter. An instructors solutions manual is available on the book's webpage at springer.com. **Analog Integrated Circuits for Communication Principles Simulation and Design Second Edition** is for readers who have completed an introductory course in analog circuits and are familiar with basic analysis techniques as well as with the operating principles of semiconductor devices. This book also serves as a useful reference for practicing engineers.

Experiments Manual with simulation CD to accompany Grob's Basic Electronics: Fundamentals of DC/AC Circuits Frank Pugh, Wes Ponick, 2006-03-31 This lab book written by Frank Pugh and Wes Ponick provides students and instructors with easy to follow laboratory experiments. The experiments range from an introduction to laboratory equipment to experiments dealing with filter applications. All experiments have been student tested to ensure their effectiveness. The lab book is organized to correlate with topics covered

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