

# SPICE FOR CIRCUITS AND ELECTRONICS USING PSpice



Prentice-Hall International Editions

MUHAMMAD H. RASHID

# Spice For Circuits And Electronics Using Pspice

**Jimmie J. Cathey**



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*SPICE for Circuits and Electronics Using PSpice* M. H. Rashid,1990 Textbook for undergraduate students Requires no prior knowledge of the SPICE simulator A course on basic circuits is a prerequisite or co requisite Annotation copyright Book News Inc Portland Or **SPICE for Circuits and Electronics Using PSpice** ,1990 **Introduction to PSpice Using**

**OrCAD for Circuits and Electronics** M. H. Rashid,2004 This book uses a top down approach to introduce readers to the SPICE simulator It begins by describing techniques for simulating circuits then presents the various SPICE and OrCAD commands and their applications to electrical and electronic circuits Lavishly illustrated this new edition includes even more hands on exercises suggestions sample problems and circuit models of actual devices It is an ideal supplement for courses in electric or electronic circuitry and is also a solid professional reference BOOK JACKET Title Summary field provided by Blackwell North America Inc All Rights Reserved Spice For Circuits And Electronics Using Pspice Rashid,Rashid

Muhammad H,1996 SPICE Paul W. Tuinenga,1988 SPICE Paul W. Tuinenga,1992 **An Analog Electronics Companion** Scott Hamilton,2007-04-26 Engineers and scientists frequently find themselves having to get involved in electronic circuit design even though this may not be their specialty This book is specifically designed for these situations and has two major advantages for the inexperienced designer it assumes little prior knowledge of electronics and it takes a modular approach so you can find just what you need without working through a whole chapter The first three parts of the book start by refreshing the basic mathematics and physics needed to understand circuit design Part four discusses individual components resistors capacitors etc while the final and largest section describes commonly encountered circuit elements such as differentiators oscillators filters and couplers A major bonus and learning aid is the inclusion of a CD ROM with the student edition of the PSpice simulation software together with models of most of the circuits described in the book

Devices for Integrated Circuits H. Craig Casey,1998-12-14 This book develops the device physics of the Si and III V compound semiconductor devices used in integrated circuits Important equations are derived from basic physical concepts The physics of these devices are related to the parameters used in SPICE Terminology is intended to prepare students for reading technical journals on semiconductor devices This text is suitable for first year graduate students and seniors in Electrical Engineering graduate students in Material Science and Chemical Engineering interested in semiconductor materials Computer Science students interested in custom VLSI design and professionals in the semiconductor industry

*The Electronics Handbook* Jerry C. Whitaker,1996-12-23 The superb organization of The Electronics Handbook means that it is not only a comprehensive and fascinating reference but also a pleasure to use Some of these organizational features include **Electronics (fundamentals And Applications)** D. Chattopadhyay,2006 The Book Is Meant For The Students Pursuing A Beginners Course In Electronics Current Syllabi Of Basic Electronics Included In Physics Honours Curriculum Of Different Universities And Those Offered In Various Engineering And Technical Institutions Have Been Consulted In

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*IEEE Circuits & Devices*, 2005

**Electronics Circuit Design Using Electronics Workbench** M. H. Rashid, 1998 This exciting new lab manual brings the real time circuit simulation and testing capabilities of the STUDENT EDITION OF ELECTRONICS WORKBENCH EWB to your electronics lab Written by a recognized authority on SPICE technology this exciting new lab manual takes full advantage of ELECTRONIC WORKBENCH S easy to use visual schematic capture interface and virtual test bench equipment The 15 design projects in this book start users off with circuit model specifications and then walks them through the process of finding component values Using ELECTRONIC WORKBENCH users learn how to verify circuit designs investigate how robust or sensitive a circuit is to component variation and explore the design effects of varying component values on circuit performance A volume in the Brooks Cole Thomson Learning BookWare Companion Series O it acts as a useful lab supplement to any electronics text

**Microelectronic Circuits and Devices** Mark N. Horenstein, 1996

*Electronics World*, 2004

*Using Computer Tools for Electric Circuits* James William Nilsson, Susan A. Riedel, 1996 This text offers an explanation of the concepts and techniques of electric circuits for the beginning engineer It includes examples to illustrate concepts chapter objectives highlighted key terms margin notes and end of chapter problem sets and a tutorial supplement

Schaum's Outline of Electronic Devices and Circuits, Second Edition Jimmie J. Cathey, 2002-02-22 This updated version of its internationally popular predecessor provides and introductory problem solved text for understanding fundamental concepts of electronic devices their design and their circuitry Providing an interface with Pspice the most widely used program in electronics new key features include a new chapter presenting the basics of switched mode power supplies thirty one new examples and twenty three PS solved problems

*Electronics, Power Electronics, Optoelectronics,*

*Microwaves, Electromagnetics, and Radar* Richard C. Dorf, 2018-10-03 In two editions spanning more than a decade The Electrical Engineering Handbook stands as the definitive reference to the multidisciplinary field of electrical engineering Our knowledge continues to grow and so does the Handbook For the third edition it has expanded into a set of six books carefully focused on a specialized area or field of study Electronics Power Electronics Optoelectronics Microwaves Electromagnetics and Radar represents a concise yet definitive collection of key concepts models and equations in these areas thoughtfully gathered for convenient access Electronics Power Electronics Optoelectronics Microwaves Electromagnetics and Radar delves into the fields of electronics integrated circuits power electronics optoelectronics electromagnetics light waves and radar supplying all of the basic information required for a deep understanding of each area It also devotes a section to electrical effects and devices and explores the emerging fields of microlithography and power electronics Articles include defining terms references and sources of further information Encompassing the work of the world's foremost experts in their respective specialties Electronics Power Electronics Optoelectronics Microwaves Electromagnetics and Radar features the latest developments the broadest scope of coverage and new material in emerging areas

**Proceedings of the 2003 ASME Summer Heat Transfer Conference**, 2003 [Electronic Circuit Analysis and Design](#) Donald A. Neamen, 2001 This junior level electronics text provides a foundation for analyzing and designing analog and digital electronic circuits Computer analysis and design are recognized as significant factors in electronics throughout the book The use of computer tools is presented carefully alongside the important hand analysis and calculations The author Don Neamen has many years experience as an engineering educator and an engineer His experience shines through each chapter of the book rich with realistic examples and practical rules of thumb The book is divided into three parts Part 1 covers semiconductor devices and basic circuit applications Part 2 covers more advanced topics in analog electronics and Part 3 considers digital electronic circuits

**Low-Noise Electronic System Design** C. D. Motchenbacher, J. A. Connelly, 1993-06-29 Whetted to the design needs of engineers of the 90s this reworking of the classic industry text offers a practical concrete look at designing low noise electronic systems with the technological tools of the future Published originally in 1973 as *Low Noise Electronic Design* the first edition was a practical primer for circuit design and system engineers on designing low level electronic circuits as well as analyzing low level sensing and measurement systems Now newly revised as *Low Noise Electronic System Design* this new edition unfolds the technological hardware speeding the electronics industry towards a new century

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