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Simulation of Power Electronics Circuits

An introductory guide

R. Ramshaw and D. Schuurman



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E. Ramshaw, D.C. Schuurman



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PSpice Simulation of Power Electronics Circuits E. Ramshaw, D.C. Schuurman, 1996-12-31 This book is aimed at advanced students and practising engineers. It provides step by step instructions in the use of MicroSim PSpice industry standard software that simulates power electronics circuits. Computer aided simulation is recognised as the most efficient method of power electronics circuit performance analysis and is widely used in the industrial marketplace. This book presents a clear and concise guide to one of the most popular software packages. The theory is backed up by drills and exercises throughout building up practical experience in MicroSim PSpice. The book is intended for use alongside a PC and a free evaluation version of MicroSim PSpice will be supplied on application to Microsim Corporation. Alternatively the author's site on the Internet can be accessed at the Internet and the software can be downloaded along with free circuit files, library files and zipped solutions to exercises. [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 **PSpice**

Power Electronic and Power Circuit Simulation Stephen Philip Tubbs, 2008-01-01 This book shows how to use PSpice to quickly analyze common industrial power electronic and power circuits. It would be most useful to an electrical engineer. The book begins with a brief review of PSpice with DC, AC and transient analyses of simple circuits. It follows with examples that solve typical industrial circuit problems. One of the examples predicts the waveform of the electrical noise that would be transmitted through an inductor. In that example PSpice would help the engineer properly size a filtering inductor. This can be important if the inductor is large or a custom item. Other examples find steady state and transient solutions for unbalanced three phase faults. PSpice's Probe program is used to make realistic output traces of transient analysis voltages, currents and powers. All of the book's examples are done with the free Demo Release 16.0 version of PSpice. Sources for obtaining free Demo copies of PSpice and other Spice programs are provided.

[PSPICE A Powerful Simulation Tool for Power Electronics & VLSI Design](#) Suman Debnath, 2020-07-31 This book is covered with simulation procedure of Power Electronics and VLSI circuit in detail using PSPICE Simulation tool. The purpose of this Book is to provide a guideline how to simulate and analyze power electronics and VLSI circuits which are building block of a complex circuit. It is possible to analyze the circuit in different ways using PSPICE Simulation tool. This book is useful for simulation of Power Electronics circuits making simulation project useful for UG, PG and research scholar subjected to power electronics and VLSI design. [Power Electronics Handbook](#) Muhammad H. Rashid, 2010-07-19 Power electronics which is a rapidly growing area in terms of

research and applications uses modern electronics technology to convert electric power from one form to another such as ac dc dc dc ac and ac ac with a variable output magnitude and frequency Power electronics has many applications in our every day life such as air conditioners electric cars sub way trains motor drives renewable energy sources and power supplies for computers This book covers all aspects of switching devices converter circuit topologies control techniques analytical methods and some examples of their applications 25% new content Reorganized and revised into 8 sections comprising 43 chapters Coverage of numerous applications including uninterruptable power supplies and automotive electrical systems New content in power generation and distribution including solar power fuel cells wind turbines and flexible transmission

SPICE for Power Electronics and Electric Power Muhammad H. Rashid, 2017-12-19 Power electronics can be a difficult course for students to understand and for professors to teach Simplifying the process for both SPICE for Power Electronics and Electric Power Third Edition illustrates methods of integrating industry standard SPICE software for design verification and as a theoretical laboratory bench Helpful PSpice Software and Program Files Available for Download Based on the author Muhammad H Rashid s considerable experience merging design content and SPICE into a power electronics course this vastly improved and updated edition focuses on helping readers integrate the SPICE simulator with a minimum amount of time and effort Giving users a better understanding of the operation of a power electronics circuit the author explores the transient behavior of current and voltage waveforms for each and every circuit element at every stage The book also includes examples of all types of power converters as well as circuits with linear and nonlinear inductors New in this edition Student learning outcomes SLOs listed at the start of each chapter Changes to run on OrCAD version 9 2 Added VPRINT1 and IPRINT1 commands and examples Notes that identify important concepts Examples illustrating EVALUATE GVALUE ETABLE GTABLE ELAPLACE GLAPLACE EFREQ and GFREQ Mathematical relations for expected outcomes where appropriate The Fourier series of the output voltages for rectifiers and inverters PSpice simulations of DC link inverters and AC voltage controllers with PWM control This book demonstrates techniques of executing power conversions and ensuring the quality of the output waveforms rather than the accurate modeling of power semiconductor devices This approach benefits students enabling them to compare classroom results obtained with simple switch models of devices In addition a new chapter covers multi level converters Assuming no prior knowledge of SPICE or PSpice simulation the text provides detailed step by step instructions on how to draw a schematic of a circuit execute simulations and view or plot the output results It also includes suggestions for laboratory experiments and design problems that can be used for student homework assignments

PSpice Power Electronic and Power Circuit Simulation ,2008 *SPICE and LTspice for Power Electronics and Electric Power* Muhammad H. Rashid, 2024-11-13 Power electronics can be a difficult course for students to understand and for professional professors to teach simplifying the process for both LTspice for power electronics and electrical power edition illustrates methods of integrating industry standard LTspice software for design verification and as a theoretical

laboratory bench Helpful LTspice software and Program Files Available for Download Based on the author Muhammad H Rashid s considerable experience merging design content and SPICE into a power electronics course this vastly improved and updated edition focuses on helping readers integrate the LTspice simulator with a minimum amount of time and effort Giving users a better understanding of the operation of a power electronic circuit the author explores the transient behavior of current and voltage waveforms for every circuit element at every stage The book also includes examples of common types of power converters as well as circuits with linear and nonlinear inductors New in this edition Changes to run on OrCAD SPICE or LTspice IV or higher Students learning outcomes SLOs listed at the start of each chapter Abstracts of chapters List the input side and output side performance parameters of the converters The characteristics of power semiconductors diodes BJTs MOSFETs and IGBTs Generating PWM and sinusoidal PWM gating signals Evaluating the power efficiency of converters Monte Carlo analysis of converters Worst case analysis of converters Nonlinear transformer model Evaluate user defined electrical quantities MEASURE This book demonstrates techniques for executing power conversion and ensuring the quality of output waveform rather than the accurate modeling of power semiconductor devices This approach benefits students enabling them to compare classroom results obtained with simple switch models of devices

PSPICE and MATLAB for Electronics John Okyere Attia,2010-06-23 Used collectively PSPICE and MATLAB are unsurpassed for circuit modeling and data analysis PSPICE can perform DC AC transient Fourier temperature and Monte Carlo analysis of electronic circuits with device models and subsystem subcircuits MATLAB can then carry out calculations of device parameters curve fitting numerical integration nume

Power Electronics Step-by-Step: Design, Modeling, Simulation, and Control Weidong Xiao,2021-02-05 Explore the latest power electronics principles practices and applications This electrical engineering guide offers comprehensive coverage of design modeling simulation and control for power electronics The book describes real world applications for the technology and features case studies worked out in both MATLAB and Simulink Presented in an accessible style Power Electronics Step by Step Design Modeling Simulation and Control focuses on the latest technologies such as DC based systems and emphasizes the averaging technique for both simulation and modeling You will get photos diagrams flowcharts graphs equations and tables that illustrate each topic Circuit components Non isolated DC DC conversion Power analysis DC to single phase AC conversion Single phase AC to DC conversion Galvanic isolated DC DC conversion Power conversion for three phase AC Bidirectional power conversion Averaging model for simulation Dynamic modeling of DC DC converters Regulation of voltage and current

SPICE for Power Electronics and Electric Power M. H. Rashid,1993 Shows how to use SPICE for power electronics and electric power for design verification and a theoretical laboratory bench As well as allowing hands on computer experience this book also includes examples of circuits with linear and non linear inductors and all types of power converters

Proceedings of ... International Conference on Power Electronics and Drive Systems ,2005

Switch-Mode Power Supply Simulation: Designing with SPICE 3 Steven

Sandler,2005-12-02 CD ROM contains SPICE3 and ISPIICE simulation models and examples from the book allowing easy customization Multi-Functional Materials and Structures Engineering Jerry Tian,2011-07-27 Selected peer reviewed papers from the 2011 International Conference on Multi functional Materials and Structures Engineering ICMMSE 2011 on June 11 12 2011 Suzhou China **Fifth European Conference on Power Electronics and Applications** ,1993

Switch-Mode Power Supply Simulation: Designing with SPICE 3 : Designing with SPICE 3 Steven Sandler,2005-11-11 A master class in power supply design through circuit simulation This book CD ROM package covers every essential aspect of power supply design simulation and fully explains the fundamentals of SPICE 3 simulation techniques CD ROM contains SPICE3 and ISPIICE simulation models and examples from the book allowing easy customization *International Conference on Simulation '98* ,1998 The 68 papers in this volume are the proceedings of the International Conference on Simulation

Power Electronics in Transportation ,1998 Recent Developments in Power Electronics M. H. Rashid,1996 This book of selected readings is a compilation on the most important thought in the area of power electronics Here under one cover Rashid has selected key papers from 78 of the most respected names in the industry *Proceedings of the Power Conversion Conference* ,2002

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