



PSpice for Windows: A Circuit Simulation Primer v. 1

Goody, Roy W.

Note: This is not the actual book cover

Pspice For Windows A Circuit Simulation Primer

Roy W. Goody



Pspice For Windows A Circuit Simulation Primer:

MicroSim PSpice for Windows Roy W. Goody, 1998

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

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

MicroSim PSpice for Windows: DC, AC, and devices and circuits Roy W. Goody, 1998 This combination text software package takes students from a simple DC circuit with its customary current and voltage measurements through a damped resonant circuit that demand sophisticated and frequency measurements It is based on MicroSim DesignLab PSpice circuit simulator version 7 0 Multi level activities examples and exercises coupled with instruction in advanced techniques such as Monte Carlo and Performance should challenge both experienced and novice students

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

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MicroSim PSpice for Windows: Operational amplifiers and digital circuits Roy W. Goody, 1998 Appropriate as a supplement for undergraduate Electronic courses such as Operational Amplifiers Digital Analog and Filter Design Volume 2 picks up where PSpice for Windows Vol 1 left off and assumes that students have a working knowledge of basic PSpice techniques It continues simulation studies with more advanced topics such as operational amplifiers digital and filter design Comfortable yet challenging the text shows students how to use the program to draw circuits directly on the screen analyze the circuit in seconds using PSpice and display the results using sophisticated techniques that go far beyond those possible with conventional instruments

MicroSim PSpice for Windows: DC, AC, and devices and circuits Roy W. Goody, 1998 This combination text software package takes students from a simple DC circuit with its customary current and voltage measurements through a damped resonant circuit that demand sophisticated and frequency measurements It is based on MicroSim DesignLab PSpice circuit simulator version 7 0 Multi level activities examples and exercises coupled with instruction in advanced techniques such as Monte Carlo and Performance should challenge both experienced and novice students

Linear Circuit Analysis Chi Kong Tse, 1998 Linear Circuit Analysis provides concise and practical treatment of the basics of circuits suitable for undergraduates Whilst mathematical rigour is not sacrificed the book is written in an easily

readable style and also covers many topics from a practical non mathematical perspective For those lecturers that wish to explore other teaching methods the later chapters offer an introduction to the topological method of analysis The text is ideal for a first course in circuits as the text starts by recapping basics such as Ohm s law before covering the nodal mesh approach to circuit analysis As such it equips students with effective analytical skills which will form a solid basis for the rest of their electronic engineering course

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 nune

PSpice for Windows: Operational amplifiers and digital circuits Roy W. Goody,1996

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