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# PSpice®

## Simulation of Power Electronics Circuits

An introductory guide

R. Ramshaw and D. Schuurman



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**Vinod Kumar,Ranjan Kumar  
Behera,Dheeraj Joshi,Ramesh Bansal**

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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

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[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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**Power Electronics, Drives, and Advanced Applications** Vinod Kumar, Ranjan Kumar Behera, Dheeraj Joshi, Ramesh Bansal, 2020-03-27 Concern for reliable

power supply and energy efficient system design has led to usage of power electronics based systems including efficient electric power conversion and power semiconductor devices This book provides integration of complete fundamental theory design simulation and application of power electronics and drives covering up to date subject components It contains twenty one chapters arranged in four sections on power semiconductor devices basic power electronic converters advanced power electronics converters power supplies electrical drives and advanced applications Aimed at senior undergraduate and graduate students in electrical engineering and power electronics including related professionals this book Includes electrical drives such as DC motor AC motor special motor high performance motor drives solar electrical hybrid vehicle and fuel cell drives Reviews advances in renewable energy technologies wind PV hybrid power systems and their integration Explores topics like distributed generation microgrid and wireless power transfer system Includes simulation examples using MATLAB Simulink and over four hundred solved unsolved and review problems      **Power Electronics** Issa Batarseh,Ahmad Harb,2017-12-22 This fully updated textbook provides complete coverage of electrical circuits and introduces students to the field of energy conversion technologies analysis and design Chapters are designed to equip students with necessary background material in such topics as devices switching circuit analysis techniques converter types and methods of conversion The book contains a large number of examples exercises and problems to help enforce the material presented in each chapter A detailed discussion of resonant and softswitching dc to dc converters is included along with the addition of new chapters covering digital control non linear control and micro inverters for power electronics applications Designed for senior undergraduate and graduate electrical engineering students this book provides students with the ability to analyze and design power electronic circuits used in various industrial applications      **Power Electronics and Motor Drives** Bimal K. Bose,2020-11-13 Power Electronics and Motor Drives Advances and Trends Second Edition is the perfect resource to keep the electrical engineer up to speed on the latest advancements in technologies equipment and applications Carefully structured to include both traditional topics for entry level and more advanced applications for the experienced engineer this reference sheds light on the rapidly growing field of power electronic operations New content covers converters machine models and new control methods such as fuzzy logic and neural network control This reference will help engineers further understand recent technologies and gain practical understanding with its inclusion of many industrial applications Further supported by a glossary per chapter this book gives engineers and researchers a critical reference to learn from real world examples and make future decisions on power electronic technology and applications Provides many practical examples of industrial applications Updates on the newest electronic topics with content added on fuzzy logic and neural networks Presents information from an expert with decades of research and industrial experience      **Power Electronics And Motor Drives** Mr. Rohit Manglik,2023-06-23 Delving into power electronics and motor drives this course explores its critical concepts advanced techniques and practical relevance across various sectors The curriculum emphasizes both theoretical

understanding and hands on problem solving      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 books 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      Introduction to Modern Power Electronics Andrzej M. Trzynadlowski,2010-03-15 This updated edition of this book provides comprehensive coverage of modern power electronics addressing all the latest trends and hot button issues from PWM rectifiers to renewable energy systems to electromagnetic interference It features an overview of advanced control methods used in today s power electronic converters numerous SPICE files of typical power conversion circuits and an Instructor s Manual with solutions to all problems An extensive body of examples exercises computer assignments and simulations make      *Power-Switching Converters* Simon Ang,Alejandro Oliva,Gary Griffiths,Richard Harrison,2010-12-20 Significantly expanded and updated with extensive revisions new material and a new chapter on emerging applications of switching converters Power Switching Converters Third Edition offers the same trusted accessible and comprehensive information as its bestselling predecessors Similar to the two previous editions this book can be used for a      Recent Advances in Multidisciplinary Applied Physics A. Méndez-Vilas,2005-11-07 The 1st International Meeting on Applied Physics APHYS 2003 succeeded in creating a new international forum for applied physics in Europe with specific interest in the application of techniques training and culture of physics to research areas usually associated with other scientific and engineering disciplines This book contains a selection of peer reviewed papers presented at APHYS 2003 held in Badajoz Spain from 15th to 18th October 2003 which included the following Plenary Lectures Nanobiotechnology Interactions of Cells with Nanofeatured Surfaces and with Nanoparticles Radiation Protection of Nuclear Workers Ethical Issues Chaotic Data Encryption for Optical Communications      Power Electronics with MATLAB L. Ashok Kumar,A. Kalaiarasi,Y. Uma Maheswari,2018 Discusses the essential concepts of power electronics through MATLAB examples and simulations      **The Power Electronics Handbook** Timothy L. Skvarenina,2018-10-03 Less expensive lighter and smaller than its electromechanical counterparts power electronics lie at the very heart of controlling and converting electric energy which in turn lies at the heart of making that energy useful From household appliances to space faring vehicles the applications of power electronics are virtually limitless Until now however the same could not be said for access to up to date reference

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as their applications in electronic components This volume develops the interplay among material properties component specification and device requirements using ferrites Throughout emphasis is placed on practical technological concerns as opposed to mathematical and physical aspects of the subject The book traces the origin of the magnetic effect in ferrites from the level of the simplest particle and the increases the scope to the larger and larger hierarchies From the desired magnetic properties the author deduces the physical and chemical material parameters taking into consideration major chemistry impurity levels ceramic microstructures and grain boundary effects He then discusses the processing conditions and associated conditions required for implementation In addition to conventional ceramic techniques he describes non conventional methods such as coprecipitation co spray roasting and single crystal growth The second section of this book deals with a complete listing of the many important applications in the field including ferrites for permanent magnet telecommunications power supplies memory systems magnetic recording and microwave applications The function of ferrites in each of these applications is described The requirements of the electronic circuit and device are broken down into the individual component specifications with regard to size and configuration Design criteria for power level degree of stability and cost are then considered

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

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