

SECOND EDITION

Switching Power Converters

MEDIUM AND HIGH POWER



Dorin O. Neacsu



CRC Press
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Switching Power Converters Medium And High Power Second Edition

Simon Ang,Alejandro Oliva



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Power-Switching Converters Dorin O. Neacsu, 2006-05-25 Power converters are at the heart of modern power electronics From automotive power systems to propulsion for large ships their use permeates through industrial commercial military and aerospace applications of various scales Having reached a point of saturation where we are unlikely to see many new and revolutionary technologies industry now seeks to optimize and standardize the performance of these devices Power Switching Converters Medium and High Power examines the characteristics and operating principles of these systems in terms of how to increase

their efficiency and produce them at lower cost This book begins with an introduction to the field placing the technology in its business context to highlight the current trends and issues facing the modern power engineer The remainder of the book provides a detailed examination of three phase power switching converters including the various problems and solutions involved in different applications It discusses high power semiconductor devices pulse width modulation PWM principles and algorithms for various implementations closed loop current control component minimized topologies power grid interface parallel and interleaved power converters and practical aspects such as protection and thermal management Filling the gap between textbooks and technical papers Power Switching Converters Medium and High Power offers practical solutions to current industrial demands with a focus on the particular business needs of performance quality and cost efficiency It also serves as an excellent textbook for graduate study

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Power-Switching Converters, Second Edition Simon Ang, Alejandro Oliva, 2005-03-17 After nearly a decade of success owing to its thorough coverage abundance of problems and examples and practical use of simulation and design Power Switching Converters enters its second edition with new and updated material entirely new design case studies and expanded figures equations and homework problems This textbook is ideal for senior undergraduate or graduate courses in power electronic converters requiring only systems analysis and basic electronics courses The only text of such detail to also include the use of PSpice and step by step designs and simulations Power Switching Converters Second Edition covers basic topologies basic control techniques and closed loop control and stability It also includes two new chapters on interleaved converters and switched capacitor converters and the authors have added discrete time modeling to the dynamic analysis of switching converters The final two chapters are dedicated to simulation and complete design examples respectively PSpice examples and MATLAB scripts are available for download from the CRC

Web site These are useful for the simulation of students designs Class slides are also available on the Internet Instructors will appreciate the breadth and depth of the material more than enough to adapt into a customized syllabus Students will similarly benefit from the more than 440 figures and over 1000 equations ample homework problems and case studies presented in this book

Modular Multilevel Converters with Interleaved Half-Bridge Submodules Aleksandr Viatkin, 2023-03-29 This book reports on a comprehensive study on a novel high power converter i.e. a Modular Multilevel Converter with Interleaved Half bridge Submodules ISM MMC It describes in depth its average model the operating principles as well as a new control method and a hybrid modulation strategy that help to exploit the benefits of the interleaving scheme The new power converter is particularly advantageous for high current applications that require superb quality of input output waveforms Moreover this book reports on a systematic study of the current balancing problem between parallel connected units that commute in non simultaneous fashion This is a typical issue in interleaved converters however here it is analyzed for the first time in relation to MMC based structures Two control strategies are proposed to cope with this matter By using a sensorless regulation scheme the number of required current transducers has been minimized reducing complexity cost and footprint of the hardware while providing converter with a fast and accurate current balancing This book also offers a comprehensive comparison between several practical designs of ISM MMC and classical MMC for an ultra fast electrical vehicle charger All in all it provides graduate students and researchers as well as field engineers and professionals with extensive information and essential practical details on the state of the art MMC and ISM MMC design

Digital Control in Power Electronics, 2nd Edition Simone Buso, Paolo Mattavelli, 2022-05-31 This book presents the reader whether an electrical engineering student in power electronics or a design engineer a selection of power converter control problems and their basic digital solutions based on the most widespread digital control techniques The presentation is primarily focused on different applications of the same power converter topology the half bridge voltage source inverter considered both in its single and three phase implementation This is chosen as the test case because besides being simple and well known it allows the discussion of a significant spectrum of the most frequently encountered digital control applications in power electronics from digital pulse width modulation DPWM and space vector modulation SVM to inverter output current and voltage control ending with the relatively more complex VSI applications related to the so called smart grid scenario This book aims to serve two purposes 1 to give a basic introductory knowledge of the digital control techniques applied to power converters and 2 to raise the interest for discrete time control theory stimulating new developments in its application to switching power converters

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 Electronics** an essential resource for students and experts. 2024-07-22 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources. Specializing in competitive exams and academic support, EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels.

Power Electronics Handbook Muhammad H. Rashid, 2011-01-13 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 to dc, dc to dc, dc to ac, and ac to ac, with a variable output magnitude and frequency. It has many applications in our everyday life, such as air conditioners, electric cars, subway 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. Designed to appeal to a new generation of engineering professionals, *Power Electronics Handbook* 3rd Edition features four new chapters covering renewable energy, energy transmission, energy storage, as well as an introduction to Distributed and Cogeneration (DCG) technology, including gas turbines, gensets, microturbines, wind turbines, variable speed generators, photovoltaics, and fuel cells. This technology has been gaining momentum for quite some time now, with smart grid technology. With this book, readers should be able to provide technical design leadership on assigned power electronics design projects and lead the design from the concept to production, involving significant scope and complexity. Contains 45 chapters covering all aspects of power electronics and its applications. Three new chapters now including coverage of Energy Sources, Energy Storage, and Electric Power Transmission. Contributions from more than fifty leading experts spanning twelve different countries.

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