

Converters

Ned Mohan, Tore M. Undeland, William P. Robbins

Data Converters Franco Maloberti, 2007-02-22 This book is the first graduate-level textbook presenting a comprehensive treatment of Data Converters. The advancement of digital electronics urged the availability of a still missing support for teaching and self-learning analog-digital interfaces at many levels: the specification, the conversion methods and architectures, the circuit design and the testing. This book, after the necessary study of the background theoretical elements, covers aspects and provide elements for a deep and comprehensive knowledge. The breath and the level of details of topics is enhanced by introductory material in each chapter and the use of many examples, most of them in the form of computer behavioral simulations. The examples and the end-of-chapter problems help in understanding and favor self-practice using tools that are effective for training and for design activity. Data Converters is a textbook that is also essential for engineering professionals as it was written for responding to a shortage of organically organized material on the topic. The book assumes a solid background in analog and digital circuits as well as a working knowledge of simulation tools for circuit and behavioral analysis. A background on statistical analysis is also helpful, though not strictly necessary. Coverage of all the basic elements essential for a clear understanding of sampling, quantization, noise in sampled-data systems and mathematical tools for sampled-data linear systems Comprehensive definition of the parameters used to specify data converters and necessary for understanding product data sheets Coverage of all the architectures used in Nyquist-rate data converters and detailed study of features, limits and design techniques Detailed study of oversampled and Sigma-Delta converters with simulation examples and use of

spectra and histograms for a clear understanding of features and limit if the noise shaping Coverage of digital correction and calibration techniques for enhancing performances Use of theory and intuitive views to explain circuits and systems operation and limits Coverage of testing methods and description of the data processing used for testing and characterization Extensive use of Simulink and Matlab in examples and problem sets to assist reader comprehension and favor deeper study

Switching Power Converters Dorin O. Neacsu, 2017-12-19 An examination of all of the multidisciplinary aspects of medium- and high-power converter systems, including basic power electronics, digital control and hardware, sensors, analog preprocessing of signals, protection devices and fault management, and pulse-width-modulation (PWM) algorithms, *Switching Power Converters: Medium and High Power, Second Edition* discusses the actual use of industrial technology and its related subassemblies and components, covering facets of implementation otherwise overlooked by theoretical textbooks. The updated Second Edition contains many new figures, as well as new and/or improved chapters on: Thermal management and reliability Intelligent power modules AC/DC and DC/AC current source converters Multilevel converters Use of IPM within a network of switches concept Power semiconductors Matrix converters Practical aspects in building power converters Providing the latest research and development information, along with numerous examples of successful home appliance, aviation, naval, automotive electronics, industrial motor drive, and grid interface for renewable energy products, this edition highlights advancements in packaging technologies, tackles the advent of hybrid circuits able to incorporate control and power stages within the same package, and

examines design for reliability from the system level perspective.

Voltage-Sourced Converters in Power Systems Amirnaser Yazdani, Reza Iravani, 2010-03-25 Presents Fundamentals of Modeling, Analysis, and Control of Electric Power Converters for Power System Applications Electronic (static) power conversion has gained widespread acceptance in power systems applications; electronic power converters are increasingly employed for power conversion and conditioning, compensation, and active filtering. This book presents the fundamentals for analysis and control of a specific class of high-power electronic converters—the three-phase voltage-sourced converter (VSC). *Voltage-Sourced Converters in Power Systems* provides a necessary and unprecedented link between the principles of operation and the applications of voltage-sourced converters. The book: Describes various functions that the VSC can perform in electric power systems Covers a wide range of applications of the VSC in electric power systems—including wind power conversion systems Adopts a systematic approach to the modeling and control design problems Illustrates the control design procedures and expected performance based on a comprehensive set of examples and digital computer time-domain simulation studies This comprehensive text presents effective techniques for mathematical modeling and control design, and helps readers understand the procedures and analysis steps. Detailed simulation case studies are included to highlight the salient points and verify the designs. *Voltage-Sourced Converters in Power Systems* is an ideal reference for senior undergraduate and graduate students in power engineering programs, practicing engineers who deal with grid integration and operation of distributed energy resource units, design engineers, and researchers in the area of

electric power generation, transmission, distribution, and utilization.

Power Electronics Ned Mohan, Tore M. Undeland, William P. Robbins, 2003

Market_Desc: · Electrical Engineering Students · Electrical Engineering Instructors· Power Electronics Engineers Special Features: · Easy to follow step-by-step in depth treatment of all the theory.· Computer simulation chapter describes the role of computer simulations in power electronics. Examples and problems based on Pspice and MATLAB are included.· Introductory chapter offers a review of basic electrical and magnetic circuit concepts.· A new CD-ROM contains the following:· Over 100 of new problems of varying degrees of difficulty for homework assignments and self-learning.· PSpice-based simulation examples, which illustrate basic concepts and help in design of converters.· A newly-developed magnetic component design program that demonstrates design trade-offs.· PowerPoint-based slides, which will improve the learning experience and the ease of using the book About The Book: The text includes cohesive presentation of power electronics fundamentals for applications and design in the power range of 500 kW or less. It describes a variety of practical and emerging power electronic converters made feasible by the new generation of power semiconductor devices. Topics included in this book are an expanded discussion of diode rectifiers and thyristor converters as well as chapters on heat sinks, magnetic components which present a step-by-step design approach and a computer simulation of power electronics which introduces numerical techniques and commonly used simulation packages such as PSpice, MATLAB and EMTF.

Advanced Data Converters Gabriele Manganaro, 2011-11-17 Need to get up to speed quickly on the latest advances in high performance data converters? Want help choosing

the best architecture for your application? With everything you need to know about the key new converter architectures, this guide is for you. It presents basic principles, circuit and system design techniques and associated trade-offs, doing away with lengthy mathematical proofs and providing intuitive descriptions upfront. Everything from time-to-digital converters to comparator-based/zero-crossing ADCs is covered and each topic is introduced with a short summary of the essential basics. Practical examples describing actual chips, along with extensive comparison between architectural or circuit options, ease architecture selection and help you cut design time and engineering risk. Trade-offs, advantages and disadvantages of each option are put into perspective with a discussion of future trends, showing where this field is heading, what is driving it and what the most important unanswered questions are.

Understanding Delta-Sigma Data Converters Shanthi Pavan, Richard Schreier, Gabor C. Temes, 2017-01-24 This new edition introduces operation and design techniques for Sigma-Delta converters in physical and conceptual terms, and includes chapters which explore developments in the field over the last decade Includes information on MASH architectures, digital-to-analog converter (DAC) mismatch and mismatch shaping Investigates new topics including continuous-time $\Delta\Sigma$ analog-to-digital converters (ADCs) principles and designs, circuit design for both continuous-time and discrete-time $\Delta\Sigma$ ADCs, decimation and interpolation filters, and incremental ADCs Provides emphasis on practical design issues for industry professionals

Resonant Power Converters Marian K. Kazimierczuk, Dariusz Czarkowski, 2012-11-07 This book is devoted to resonant energy conversion in power electronics. It is a practical,

systematic guide to the analysis and design of various dc-dc resonant inverters, high-frequency rectifiers, and dc-dc resonant converters that are building blocks of many of today's high-frequency energy processors. Designed to function as both a superior senior-to-graduate level textbook for electrical engineering courses and a valuable professional reference for practicing engineers, it provides students and engineers with a solid grasp of existing high-frequency technology, while acquainting them with a number of easy-to-use tools for the analysis and design of resonant power circuits. Resonant power conversion technology is now a very hot area and in the center of the renewable energy and energy harvesting technologies.

Multilevel Converters for Industrial Applications Sergio Alberto

Gonzalez,Santiago Andres Verne,Maria Ines Valla,2017-07-12 Modern semiconductor devices have reached high current and voltage levels, and their power-handling limits can be extended if they are used in multilevel converter configurations. To create high-performance and reliable control designs, however, engineers need in-depth understanding of the characteristics and operation of these topologies. Multilevel Converters for Industrial Applications presents a thorough and comprehensive analysis of multilevel converters with a common DC voltage source. The book offers a novel perspective to help readers understand the principles of the operation of voltage-source multilevel converters as power processors, and their capabilities and limitations. The book begins with an overview of medium-voltage power converters and their applications. It then analyzes the topological characteristics of the diode-clamped multilevel converter, the flying capacitor multilevel converter, and the asymmetric cascaded multilevel

converter. For each topology, the authors highlight particular control issues and design trade-offs. They also develop relevant modulation and control strategies. Numerous graphical representations aid in the analysis of the topologies and are useful for beginning the analysis of new multilevel converter topologies. The last two chapters of the book explore two case studies that analyze the behavior of the cascade asymmetric multilevel converter as a distribution static compensator and shunt active power filter, and the behavior of the diode-clamped topology configured as a back-to-back converter. These case studies demonstrate how to address the associated control problems with advanced control and modulation schemes. Examining recent advances, this book provides deep insight on the design of high-power multilevel converters and their applications. It is a valuable reference for anyone interested in medium-voltage power conversion, which is increasingly being used in industry and in renewable energy and distributed generation systems to improve efficiency and operation flexibility.

Power Electronic Converters Teuvo Suntio, Tuomas Messo, Joonas Puukko, 2017-12-26
Filling the need for a reference that explains the behavior of power electronic converters, this book provides information currently unavailable in similar texts on power electronics. Clearly organized into four parts, the first treats the dynamics and control of conventional converters, while the second part covers the dynamics and control of DC-DC converters in renewable energy applications, including an introduction to the sources as well as the design of current-fed converters applying duality-transformation methods. The third part treats the dynamics and control of three-phase rectifiers in voltage-sourced applications, and the final part looks at the dynamics and control of three-phase inverters in renewable-

energy applications. With its future-oriented perspective and advanced, first-hand knowledge, this is a prime resource for researchers and practicing engineers needing a ready reference on the design and control of power electronic converters.

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 Sixing Du, Apparao Dekka, Bin Wu, Navid

Zargari,2018-02-22 An invaluable academic reference for the area of high-power converters, covering all the latest developments in the field High-power multilevel converters are well known in industry and academia as one of the preferred choices for efficient power conversion. Over the past decade, several power converters have been developed and commercialized in the form of standard and customized products that power a wide range of industrial applications. Currently, the modular multilevel converter is a fast-growing technology and has received wide acceptance from both industry and academia. Providing adequate technical background for graduate- and undergraduate-level teaching, this book includes a comprehensive analysis of the conventional and advanced modular multilevel converters employed in motor drives, HVDC systems, and power quality improvement. Modular Multilevel Converters: Analysis, Control, and Applications provides an overview of high-power converters, reference frame theory, classical control methods, pulse width modulation schemes, advanced model predictive control methods, modeling of ac drives, advanced drive control schemes, modeling and control of HVDC systems, active and reactive power control, power quality problems, reactive power, harmonics and unbalance compensation, modeling and control of static synchronous compensators (STATCOM) and unified power quality compensators. Furthermore, this book: Explores technical challenges, modeling, and control of various modular multilevel converters in a wide range of applications such as transformer and transformerless motor drives, high voltage direct current transmission systems, and power quality improvement Reflects the latest developments in high-power converters in medium-voltage motor drive systems Offers design guidance with tables, charts graphs,

and MATLAB simulations Modular Multilevel Converters: Analysis, Control, and Applications is a valuable reference book for academic researchers, practicing engineers, and other professionals in the field of high power converters. It also serves well as a textbook for graduate-level students.

Power Electronic Converters Modeling and Control Seddik Bacha, Iulian Munteanu, Antoneta Iuliana Bratcu, 2013-11-12 Modern power electronic converters are involved in a very broad spectrum of applications: switched-mode power supplies, electrical-machine-motion-control, active power filters, distributed power generation, flexible AC transmission systems, renewable energy conversion systems and vehicular technology, among them. Power Electronics Converters Modeling and Control teaches the reader how to analyze and model the behavior of converters and so to improve their design and control. Dealing with a set of confirmed algorithms specifically developed for use with power converters, this text is in two parts: models and control methods. The first is a detailed exposition of the most usual power converter models: · switched and averaged models; · small/large-signal models; and · time/frequency models. The second focuses on three groups of control methods: · linear control approaches normally associated with power converters; · resonant controllers because of their significance in grid-connected applications; and · nonlinear control methods including feedback linearization, stabilizing, passivity-based, and variable-structure control. Extensive case-study illustration and end-of-chapter exercises reinforce the study material. Power Electronics Converters Modeling and Control addresses the needs of graduate students interested in power electronics, providing a balanced understanding of theoretical ideas

coupled with pragmatic tools based on control engineering practice in the field. Academics teaching power electronics will find this an attractive course text and the practical points make the book useful for self tuition by engineers and other practitioners wishing to bring their knowledge up to date.

Power-Switching Converters, Third Edition Simon Ang,Alejandro Oliva,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 an introductory as well as a more advanced course. Chapters begin with an introduction to switching converters and basic switching converter topologies. Entry level chapters continue with a discussion of resonant converters, isolated switching converters, and the control schemes of switching converters. Skipping to chapters 10 and 11, the subject matter involves an examination of interleaved converters and switched capacitor converters to round out and complete the overview of switching converter topologies. More detailed chapters include the continuous time-modeling and discrete-time modeling of switching converters as well as analog control and digital control. Advanced material covers tools for the simulation of switching converters (including both PSpice and Matlab simulations) and the basic concepts necessary to understand various actual and emerging applications for switching converters, such as power factor correction, LED drivers, low-noise converters, and switching converters topologies for solar and fuel cells. The final chapter contains several complete design examples, including experimental designs that

may be used as technical references or for class laboratory projects. Supplementary information is available at crcpress.com including slides, PSpice examples (designed to run on the OrCAD 9.2 student version and PSIM software) and MATLAB scripts. Continuing the august tradition of its predecessors, *Power-Switching Converters*, Third Edition provides introductory and advanced information on all aspects of power switching converters to give students the solid foundation and applicable knowledge required to advance in this growing field.

Power-Switching Converters Simon Ang, 1995-04-10 This work provides detailed, practical coverage of switching converters, from the fundamental principles to the next generation of programmable devices. It examines buck, boost, buck-boost, Cuk, quasi-resonant, loaded-resonant and isolated configurations. The book compares the advantages of switching converters over conventional converters.; University and college bookstores may order five or more copies at a special student price which is available upon request from Marcel Dekker Inc.

Switching Power Converters Peter Wood, 1981

Power Converters for Medium Voltage Networks Md. Rabiul Islam, Youguang Guo, Jianguo Zhu, 2014-09-15 This book examines a number of topics, mainly in connection with advances in semiconductor devices and magnetic materials and developments in medium and large-scale renewable power plant technologies, grid integration techniques and new converter topologies, including advanced digital control systems for medium-voltage networks. The book's individual chapters provide an extensive compilation of fundamental theories and in-depth information on current research and development

trends, while also exploring new approaches to overcoming some critical limitations of conventional grid integration technologies. Its main objective is to present the design and implementation processes for medium-voltage converters, allowing the direct grid integration of renewable power plants without the need for step-up transformers.

High Speed A/D Converters Alfi Moscovici, 2006-04-18 The Analog to Digital Converters represent one half of the link between the world we live in - analog - and the digital world of computers, which can handle the computations required in digital signal processing. These devices are mathematically very complex due to their nonlinear behavior and thus fairly difficult to analyze without the use of simulation tools. *High Speed A/D Converters: Understanding Data Converters Through SPICE* presents the subject from the practising engineer's point of view rather than from the academic's point of view. A practical approach is emphasized. *High Speed A/D Converters: Understanding Data Converters Through SPICE* is intended as a learning tool by providing building blocks that can be stacked on top of each other to build higher order systems. The book provides a guide to understanding the various topologies used in A/D converters by suggesting simple methods for the blocks used in an A/D converter. The converters discussed throughout the book constitute a class of devices called undersampled or Nyquist converters. The tools used in deriving the results presented are: TopSpice® by Penzar - a mixed mode SPICE simulator - version 5.90. The files included in Appendix A were written for this tool. However, most circuit files need only minor adjustments to be used on other SPICE simulators such as PSpice, Hspice, IS_Spice and Micro-Cap IV; Mathcad 2000 - Professional by Mathsoft. This tool is very useful in performing FFT analysis as well as

drawing some of the graphs. Again, the mathcad files are included to help the user analyze the data. High Speed A/D Converters: Understanding Data Converters Through SPICE not only supplies the models for the A/D converters for SPICE program but also describes the physical reasons for the converter's performance.

Origin of Power Converters Tsai-Fu Wu, Yu-Kai Chen, 2020-04-14 A comprehensive guide to approaches to decoding, synthesizing and modeling pulse width modulation (PWM) converters *Origin of Power Converters* explores the original converter and provides a systematic examination of the development and modeling of power converters based on decoding and synthesizing approaches. The authors—noted experts on the topic—present an introduction to the origins of the converter and detail the fundamentals related to power the converter's evolution. They cover a range of converter synthesis approaches, synthesis of multi-stage/multi-level converters, extension of hard-switching converters to soft-switching ones, and determination of switch-voltage stresses in the converters. In later chapters, this comprehensive resource reviews conventional two-port network theory and the state-space averaged (SSA) modeling approach, from which systematic modeling approaches are based on the graft switch technique. In addition, the book reviews the converter layer scheme and some fundamental circuit theories. This important book:

- Contains a review of several typical transfer codes, such as step-down, step-up, step-up&-down, and \pm step-up&-down
- Describes the syntheses of pulse width modulation (PWM) converters such as voltage-fed z-source, current-fed z-source, quasi z-source, switched capacitor, and switched inductor converters
- Presents two application examples based on previously proposed modeling approaches

Written for academic

researchers, graduate students, and seniors in power electronics, *Origin of Power Converters* provides a comprehensive understanding of the evolution of the converter and its applications.

Advanced DC/DC Converters Fang Lin Luo, Hong Ye, 2003-09-29 DC/DC conversion techniques have undergone rapid development in recent decades. With the pioneering work of authors Fang Lin Luo and Hong Ye, DC/DC converters have now been sorted into their six generations, and by a rough count, over 500 different topologies currently exist, with more being developed each year. *Advanced DC/DC Converters* off

Advanced DC-DC Power Converters and Switching Converters Salvatore Musumeci, 2021-03-30 Nowadays, power electronics is an enabling technology in the energy development scenario. Furthermore, power electronics is strictly linked with several fields of technological growth, such as consumer electronics, IT and communications, electrical networks, utilities, industrial drives and robotics, and transportation and automotive sectors. Moreover, the widespread use of power electronics enables cost savings and minimization of losses in several technology applications required for sustainable economic growth. The topologies of DC-DC power converters and switching converters are under continuous development and deserve special attention to highlight the advantages and disadvantages for use increasingly oriented towards green and sustainable development. DC-DC converter topologies are developed in consideration of higher efficiency, reliable control switching strategies, and fault-tolerant configurations. Several types of switching converter topologies are involved in isolated DC-DC converter and nonisolated DC-DC converter solutions operating in hard-switching and soft-switching

conditions. Switching converters have applications in a broad range of areas in both low and high power densities. The articles presented in the Special Issue titled Advanced DC-DC Power Converters and Switching Converters consolidate the work on the investigation of the switching converter topology considering the technological advances offered by innovative wide-bandgap devices and performance optimization methods in control strategies used.

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