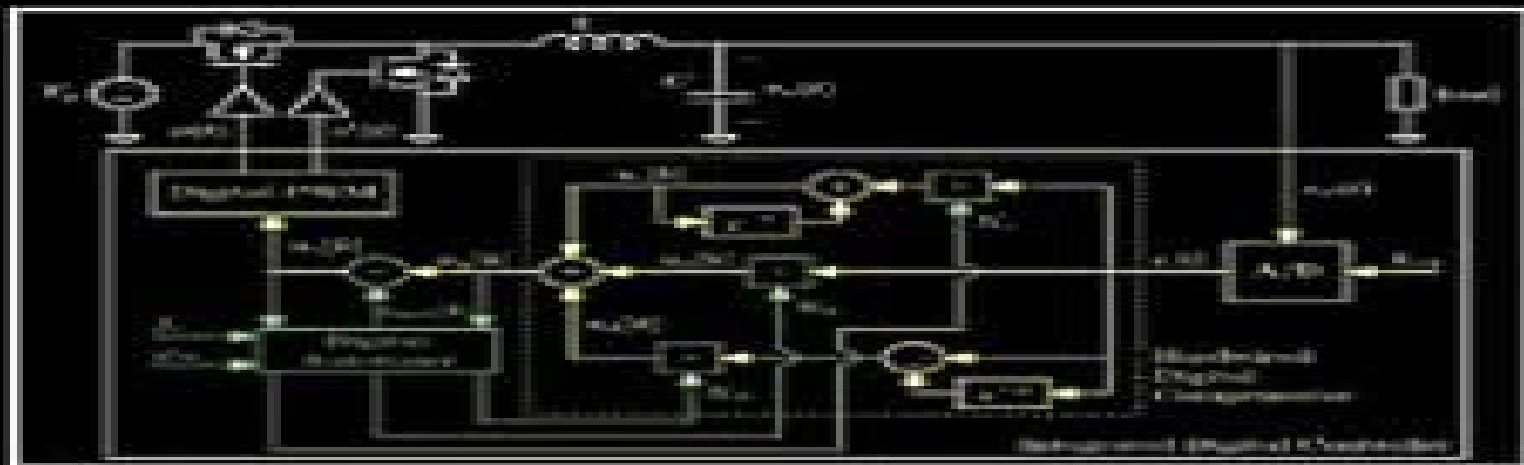


Digital Control of High-Frequency Switched-Mode Power Converters



Luca Corradini • Dragan Maksimović
Paolo Mattavelli • Regan Zane

Digital Control Of High Frequency Switched Mode Power Converters Ieee Press Series On Power Engineering

**Ali Emadi,Alireza Khaligh,Zhong
Nie,Young Joo Lee**



Digital Control Of High Frequency Switched Mode Power Converters Ieee Press Series On Power Engineering:

Digital Control of High-Frequency Switched-Mode Power Converters Luca Corradini, Dragan Maksimovic, Paolo Mattavelli, Regan Zane, 2015-06-09 This book is focused on the fundamental aspects of analysis modeling and design of digital control loops around high frequency switched mode power converters in a systematic and rigorous manner Comprehensive treatment of digital control theory for power converters Verilog and VHDL sample codes are provided Enables readers to successfully analyze model design and implement voltage current or multi loop digital feedback loops around switched mode power converters Practical examples are used throughout the book to illustrate applications of the techniques developed Matlab examples are also provided

Design and Control of Power Converters 2019 Manuel Arias, 2021-07-02 In this book 20 papers focused on different fields of power electronics are gathered Approximately half of the papers are focused on different control issues and techniques ranging from the computer aided design of digital compensators to more specific approaches such as fuzzy or sliding control techniques The rest of the papers are focused on the design of novel topologies The fields in which these controls and topologies are applied are varied MMCs photovoltaic systems supercapacitors and traction systems LEDs wireless power transfer etc

Power Electronics Handbook Muhammad H. Rashid, 2017-09-09 Power Electronics Handbook Fourth Edition brings together over 100 years of combined experience in the specialist areas of power engineering to offer a fully revised and updated expert guide to total power solutions Designed to provide the best technical and most commercially viable solutions available this handbook undertakes any or all aspects of a project requiring specialist design installation commissioning and maintenance services Comprising a complete revision throughout and enhanced chapters on semiconductor diodes and transistors and thyristors this volume includes renewable resource content useful for the new generation of engineering professionals This market leading reference has new chapters covering electric traction theory and motors and wide band gap WBG materials and devices With this book in hand engineers will be able to execute design analysis and evaluation of assigned projects using sound engineering principles and adhering to the business policies and product program requirements Includes a list of leading international academic and professional contributors Offers practical concepts and developments for laboratory test plans Includes new technical chapters on electric vehicle charging and traction theory and motors Includes renewable resource content useful for the new generation of engineering professionals

Advanced Power Electronics Converters for Future Renewable Energy Systems Neeraj Priyadarshi, P. Sanjeevikumar, Farooque Azam, C. Bharatiraja, Rajesh Singh, 2023-03-31 This book narrates an assessment of numerous advanced power converters employed on primitive phase to enhance the efficiency of power translation pertaining to renewable energy systems It presents the mathematical modelling analysis and control of recent power converters topologies namely AC DC DC DC and DC AC converters Numerous advanced DC DC Converters namely multi input DC DC Converter Cuk SEPIC Zeta and so forth have been assessed mathematically using state space analysis applied with an aim to

enhance power efficiency of renewable energy systems The book Explains various power electronics converters for different types of renewable energy sources Provides a review of the major power conversion topologies in one book Focuses on experimental analysis rather than simulation work Recommends usage of MATLAB PSCAD and PSIM simulation software for detailed analysis Includes DC DC converters with reasonable peculiar power rating This book is aimed at researchers graduate students in electric power engineering power and industrial electronics and renewable energy The Art of DC-DC Converter Control: Optimizing Performance and Efficiency Fuad Alhaj Omar, **Conducted Electromagnetic Interference (EMI) in Smart Grids** Robert Smolenski,2012-03-23 As power systems develop to incorporate renewable energy sources the delivery systems may be disrupted by the changes involved The grid s technology and management must be developed to form Smart Grids between consumers suppliers and producers Conducted Electromagnetic Interference EMI in Smart Grids considers the specific side effects related to electromagnetic interference EMI generated by the application of these Smart Grids Conducted Electromagnetic Interference EMI in Smart Grids presents specific EMI conducted phenomena as well as effective methods to filter and handle them once identified After introduction to Smart Grids the following sections cover dedicated methods for EMI reduction and potential avenues for future development including chapters dedicated to potential system services descriptions of the EMI spectra shaping methods methods of interference voltage compensation and theoretical analysis of experimental results By focusing on these key aspects Conducted Electromagnetic Interference EMI in Smart Grids provides a concise and comprehensive coverage of an extensive subject matter It constitutes a key resource for any industry practitioners researchers or system designers with interest in Smart Grids particularly their electromagnetic compatibility in the conducted EMI frequency range Principles of Power Electronics John G. Kassakian,David J. Perreault,George C. Verghese,Martin F. Schlecht,2023-08-03 Substantially expanded and updated the new edition of this classic textbook provides unrivalled coverage of the fundamentals of power electronics Comprehensive coverage of foundational concepts in circuits magnetics devices dynamic models and control establishes a strong conceptual framework for further study Extensive discussion of contemporary practical considerations enhanced by real world examples prepares readers for design scenarios ranging from low power dc dc converters to multi megawatt ac machine drives New topics include SiC and GaN wide bandgap materials superjunction MOSFET and IGBT devices advanced magnetics design multi level and switched capacitor converters RF converter circuits and EMI Over 300 new and revised end of chapter problems enhance and expand understanding of the material with solutions for instructors Unique in its breadth and depth and providing a range of flexible teaching pathways at multiple levels this is the definitive guide to power electronics for graduate and senior undergraduate students in electrical engineering and practicing electrical engineers Model Predictive Control of Wind Energy Conversion Systems Venkata Yaramasu,Bin Wu,2016-12-19 Model Predictive Control of Wind Energy Conversion Systems addresses the predicative control strategy that has emerged as a promising digital control

tool within the field of power electronics variable speed motor drives and energy conversion systems The authors provide a comprehensive analysis on the model predictive control of power converters employed in a wide variety of variable speed wind energy conversion systems WECS The contents of this book includes an overview of wind energy system configurations power converters for variable speed WECS digital control techniques MPC modeling of power converters and wind generators for MPC design Other topics include the mapping of continuous time models to discrete time models by various exact approximate and quasi exact discretization methods modeling and control of wind turbine grid side two level and multilevel voltage source converters The authors also focus on the MPC of several power converter configurations for full variable speed permanent magnet synchronous generator based WECS squirrel cage induction generator based WECS and semi variable speed doubly fed induction generator based WECS Furthermore this book Analyzes a wide variety of practical WECS illustrating important concepts with case studies simulations and experimental results Provides a step by step design procedure for the development of predictive control schemes for various WECS configurations Describes continuous and discrete time modeling of wind generators and power converters weighting factor selection discretization methods and extrapolation techniques Presents useful material for other power electronic applications such as variable speed motor drives power quality conditioners electric vehicles photovoltaic energy systems distributed generation and high voltage direct current transmission Explores S Function Builder programming in MATLAB environment to implement various MPC strategies through the companion website Reflecting the latest technologies in the field Model Predictive Control of Wind Energy Conversion Systems is a valuable reference for academic researchers practicing engineers and other professionals It can also be used as a textbook for graduate level and advanced undergraduate courses

Modeling, Operation, and Analysis of DC Grids Alejandro Garces, 2021-07-01 Modeling Operation and Analysis of DC Grids presents a unified vision of direct current grids with their core analysis techniques uniting power electronics power systems and multiple scales of applications Part one presents high power applications such as HVDC transmission for wind energy faults and protections in HVDC lines stability analysis and inertia emulation The second part addresses current applications in low voltage such as microgrids power trains and aircraft applications All chapters are self contained with numerical and experimental analysis Provides a unified coherent presentation of DC grid analysis based on modern research in power systems power electronics microgrids and MT HVDC transmission Covers multiple scales of applications in one location addressing DC grids in electric vehicles microgrids DC distribution multi terminal HVDC transmission and supergrids Supported by a unified set of MATLAB and Simulink test systems designed for application scenarios

Integrated Power Electronic Converters and Digital Control Ali Emadi, Alireza Khaligh, Zhong Nie, Young Joo Lee, 2017-12-19 Because of the demand for higher efficiencies smaller output ripple and smaller converter size for modern power electronic systems integrated power electronic converters could soon replace conventional switched mode power supplies Synthesized integrated converters and related digital control techniques

address problems related to cost space flexibility energy efficiency and voltage regulation the key factors in digital power management and implementation Meeting the needs of professionals working in power electronics as well as advanced engineering students Integrated Power Electronic Converters and Digital Control explores the many benefits associated with integrated converters This informative text details boost type buck type and buck boost type integrated topologies as well as other integrated structures It discusses concepts behind their operation as well specific applications Topics discussed include Isolated DC DC converters such as flyback forward push pull full bridge and half bridge Power factor correction and its application Definition of the integrated switched mode power supplies Steady state analysis of the boost integrated flyback rectifier energy storage converter Dynamic analysis of the buck integrated forward converter Digital control based on the use of digital signal processors DSPs With innovations in digital control becoming ever more pervasive system designers continue to introduce products that integrate digital power management and control integrated circuit solutions both hybrid and pure digital This detailed assessment of the latest advances in the field will help anyone working in power electronics and related industries stay ahead of the curve

Machinery, Materials Science and Engineering Applications Fei Lei, Qiang Xu, Guangde Zhang, 2017-03-31 This conference proceeding contains papers presented at the 6th International Conference on Machinery Materials Science and Engineering Applications MMSE 2016 held 28 30 October 2016 in Wuhan China The conference proceeding contributions cover a large number of topics both theoretical and applied including Material science Electrical Engineering and Automation Control Electronic Engineering Applied Mechanics Mechanical Engineering Aerospace Science and Technology Computer Science and Information technology and other related engineering topics MMSE provides a perfect platform for scientists and engineering researchers to exchange ideas build cooperative relationships and discuss the latest scientific achievements MMSE will be of interest for academics and professionals working in a wide range of industrial governmental and academic sectors including Material Science Electrical and Electronic Engineering Information Technology and Telecommunications Civil Engineering Energy Production Manufacturing Mechanical Engineering Nuclear Engineering Transportation and Aerospace Science and Technology

Power Systems Operation with 100% Renewable Energy Sources Sanjeevikumar Padmanaban, Sharmeela Chenniappan, Sivaraman Palanisamy, 2023-10-24 Power Systems Operation with 100% Renewable Energy Sources combines fundamental concepts of renewable energy integration into power systems with real world case studies to bridge the gap between theory and implementation The book examines the challenges and solutions for renewable energy integration into the transmission and distribution grids and also provides information on design analysis and operation Starting with an introduction to renewable energy sources and bulk power systems including policies and frameworks for grid upgradation the book then provides forecasting modeling and analysis techniques for renewable energy sources Subsequent chapters discuss grid code requirements and compliance before presenting a detailed break down of solar and wind integration into power systems

Other topics such as voltage control and optimization power quality enhancement and stability control are also considered Filled with case studies applications and techniques Power Systems Operation with 100% Renewable Energy Sources is a valuable read to researchers students and engineers working towards more sustainable power systems Explains Volt Var control and optimization for both transmission grid and distribution Discusses renewable energy integration into the weak grid system along with its challenges examples and case studies Offers simulation examples of renewable energy integration studies that readers will perform using advanced simulation tools Presents recent trends like energy storage systems and demand responses for improving stability and reliability

Power Management Integrated Circuits Amit Patra,Shailendra Baranwal,Ashis Maity,Samiran Dam,Syed Asif Eqbal,2024-09-09 This book intends to be a comprehensive text on the topic of integrated circuits for power management putting together both theoretical foundations and practical details leading to successful design practices in research and industry It covers all the three main categories of power management circuits viz linear regulators inductor based switchers and switched capacitor circuits and presents detailed discussion of their common topologies operation and modeling Features Includes underlying theory and design implementation practical ingredients for power management integrated circuits PMICs Provides in depth analysis of topologies and circuits related to linear regulators switched capacitor converters and inductor based converters Covers all the relevant topics at the intersection between power electronics and integrated circuit design areas Provides guidelines for design of circuits and solutions for all the pertinent topologies Indicates all important issues and the related trade offs in the design of PMICs The book will be a valuable resource for senior and graduate level students as well as industry professionals who have done university level courses on analog circuit design control systems and power electronics

Recent Advances in Power Electronics and Drives Jitendra Kumar,Premalata Jena,2020-12-03 This book presents select proceedings of the Electric Power and Renewable Energy Conference 2020 EPREC 2020 It provides rigorous discussions case studies and recent developments in the emerging areas of power electronics especially power inverter and converter electrical drives regulated power supplies operation of FACTS HVDC etc The readers would be benefited in enhancing their knowledge and skills in these domain areas The book will be a valuable reference for beginners researchers and professionals interested in advancements in power electronics and drives

The Electrical Engineering Handbook - Six Volume Set Richard C. Dorf,2018-12-14 In two editions spanning more than a decade The Electrical Engineering Handbook stands as the definitive reference to the multidisciplinary field of electrical engineering Our knowledge continues to grow and so does the Handbook For the third edition it has grown into a set of six books carefully focused on specialized areas or fields of study Each one represents a concise yet definitive collection of key concepts models and equations in its respective domain thoughtfully gathered for convenient access Combined they constitute the most comprehensive authoritative resource available Circuits Signals and Speech and Image Processing presents all of the basic information related to electric circuits and components analysis of

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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 *Dynamic Analysis of Switching-Mode DC/DC Converters* Andre Kislovski,2012-12-06 The most critical part of the modern switching mode power supply is the regulated dc dc converter Its dynamic behavior directly determines or influences four of the important characteristics of the power supply Stability of the feedback loop Rejection of input voltage ripple and the closely related

transient response to input voltage perturbation Output impedance and the closely related transient response to load perturbation Compatibility with the input EMI filter Due to the complexity of the operation of the converter predicting its dynamic behavior has not been easy Without accurate prediction and depending only on building the circuit and tinkering with it until the operation is satisfactory the engineering cost can easily escalate and schedules can be missed The situation is not much better when the circuit is built in the computer using a general purpose circuit simulation program such as SPICE At the end of this book is a form for obtaining information on a computer program especially well suited for dynamic analysis of switching mode power converters DYANA an acronym for DYnamic ANALysis DYANA is based on the method given in this book The main goal of this book is to help the power supply designer in the prediction of the dynamic behavior by providing user friendly analytical tools concrete results of already made analyses tabulated for easy application by the reader and examples of how to apply the tools provided in the book

Torque Control Moulay Tahar Lamchich, 2011-02-10 This book is the result of inspirations and contributions from many researchers a collection of 9 works which are in majority focalised around the Direct Torque Control and may be comprised of three sections different techniques for the control of asynchronous motors and double feed or double star induction machines oriented approach of recent developments relating to the control of the Permanent Magnet Synchronous Motors and special controller design and torque control of switched reluctance machine

Proceedings of the 2000 IEEE International Symposium on Intelligent Control, 2000

Design and Implementation of Fully-Integrated Inductive DC-DC Converters in Standard CMOS Mike Wens, Michiel Steyaert, 2011-05-10 CMOS DC DC Converters aims to provide a comprehensive dissertation on the matter of monolithic inductive Direct Current to Direct Current DC DC converters For this purpose seven chapters are defined which will allow the designer to gain specific knowledge on the design and implementation of monolithic inductive DC DC converters starting from the very basics

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