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aimed at undergraduate students of electrical engineering this textbook focuses on the emerging power electronic converters made feasible by the new generation of power semiconductor devices it discusses a broad spectrum of power applications and examines converter design

power electronics have varied applications such as in vehicular technology active power filters etc this book is a valuable compilation of chapters on topics such as advanced power semiconductor devices different types of power converters such as inverters performance of electronic power converters modeling design and applications of power circuit components etc for all readers who are interested in power electronics converters the researches and examples presented in this book will serve as an excellent guide to develop a comprehensive understanding

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 converters and their control for renewable energy applications provides information that helps to solve common challenges with power electronics converters including loss by switching heating of power switches management of switching time improvement of the quality of the signals delivered by power converters and improvement of the quality of energy produced by renewable energy sources this book is of interest to academics researchers and engineers in renewable energy power systems electrical engineering electronics and mechanical engineering includes important visual illustrations and imagery of concise circuit

schematics and renewable energy applications features a templated approach for step by step implementation of the new mppt algorithm based on recent and intelligent techniques provides methods for optimal harnessing of energy from renewable energy sources and converter topology synthesis

control of power electronic converters volume two gives the theory behind power electronic converter control and discusses the operation modelling and control of basic converters the main components of power electronics systems that produce a desired effect energy conversion robot motion etc by controlling system variables voltages and currents are thoroughly covered both small mobile phones computer power supplies and very large systems trains wind turbines high voltage power lines and their power ranges from the watt to the gigawatt are presented and explored users will find a focused resource on how to apply innovative control techniques for power converters and drives discusses different applications and their control explains the most important controller design methods both in analog and digital describes different but important applications that can be used in future industrial products covers voltage source converters in significant detail demonstrates applications across a much broader context

the purpose of this book is to describe the theory of digital power electronics and its applications the authors apply digital control theory to power electronics in a manner thoroughly different from the traditional analog control scheme in order to apply digital control theory to power electronics the authors define a number of new parameters including the energy factor pumping energy stored energy time constant and damping time constant these parameters differ from traditional parameters such as the power factor power transfer efficiency ripple factor and total harmonic distortion these new parameters result in the definition of new mathematical modeling a zero order hold zoh is used to simulate all ac dc rectifiers a first order hold foh is used to simulate all dc ac inverters a second order hold soh is used to simulate all dc dc converters a first order hold foh is used to simulate all ac ac ac dc ac converters presents most up to date methods of analysis and control algorithms for developing power electronic converters and power switching circuits provides an invaluable reference for engineers designing power converters commercial power supplies control systems for motor drives active filters etc presents methods of analysis not available in other books

control of power electronic converters and systems examines the theory behind power electronic converter control including operation modeling and control of basic converters the book explores how to manipulate components of power electronics converters and systems to produce a desired effect by controlling system variables advances in power electronics enable new applications to emerge and performance improvement in existing applications these advances rely on control effectiveness making it

essential to apply appropriate control schemes to the converter and system to obtain the desired performance discusses different applications and their control explains the most important controller design methods both in analog and digital describes different important applications to be used in future industrial products covers voltage source converters in significant detail demonstrates applications across a much broader context

a hands on case study backed reference of control strategies fault classification mechanisms and reliability analysis methods for pv modules power electronic converters and grid connected pv systems written by an international team of researchers with excellent backgrounds in academia and industry

design of three phase ac power electronics converters comprehensive resource on design of power electronics converters for three phase ac applications design of three phase ac power electronics converters contains a systematic discussion of the three phase ac converter design considering various electrical thermal and mechanical subsystems and functions focusing on establishing converter components and subsystems models needed for the design the text demonstrates example designs for these subsystems and for the whole three phase ac converters considering interactions among subsystems the design methods apply to different applications and topologies the text presents the basics of the three phase ac converter its design and the goal and organization of the book focusing on the characteristics and models important to the converter design for components commonly used in three phase ac converters the authors present the design of subsystems including passive rectifiers inverters and active rectifiers electromagnetic interference emi filters thermal management system control and auxiliaries mechanical system and application considerations and discuss design optimization which presents methodology to achieve optimal design results for three phase ac converters specific sample topics covered in design of three phase ac power electronics converters include models and characteristics for devices most commonly used in three phase converters including conventional si devices and emerging sic and gan devices models and selection of various capacitors characteristics and design of magnetics using different types of magnetic cores with a focus on inductors optimal three phase ac converter design including design and selection of devices ac line inductors dc bus capacitors emi filters heatsinks and control the design considers both steady state and transient conditions load and source impact converter design such as motors and grid condition impacts for researchers and graduate students in power electronics along with practicing engineers working in the area of three phase ac converters design of three phase ac power electronics converters serves as an essential resource for the subject and may be used as a textbook or industry reference

based on the fundamentals of electromagnetics this clear and concise text explains basic and applied principles of transformer and inductor design for power electronic applications it details both the theory and practice of inductors and transformers employed to filter currents store electromagnetic energy provide physical isolation between circuits and perform stepping up and down of dc and ac voltages the authors present a broad range of applications from modern power conversion systems they provide rigorous design guidelines based on a robust methodology for inductor and transformer design they offer real design examples informed by proven and working field examples key features include emphasis on high frequency design including optimisation of the winding layout and treatment of non sinusoidal waveforms a chapter on planar magnetic with analytical models and descriptions of the processing technologies analysis of the role of variable inductors and their applications for power factor correction and solar power unique coverage on the measurements of inductance and transformer capacitance as well as tests for core losses at high frequency worked examples in matlab end of chapter problems and an accompanying website containing solutions a full set of instructors presentations and copies of all the figures covering the basics of the magnetic components of power electronic converters this book is a comprehensive reference for students and professional engineers dealing with specialised inductor and transformer design it is especially useful for senior undergraduate and graduate students in electrical engineering and electrical energy systems and engineers working with power supplies and energy conversion systems who want to update their knowledge on a field that has progressed considerably in recent years

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

modern power electronics brings thorough coverage of modern power electronics equipment to those in industries commercial construction and aerospace it provides the latest techniques and energy saving applications for working with power the book starts with a very comprehensive tutorial section which reviews power electronics technology integrating power semiconductor devices different classes of converter topologies pwm techniques and key power electronics application

this book provides a comprehensive and a rigorous analytical treatment of static power converters employing mainly thyristors these power converters include phase controlled line commutated converters cycloconverters a c voltage controllers d c choppers and inverters it gives a detailed discussion of the devices which include gtos and mosfets the analysis in this book is based on circuit approaches and conclusions are aimed at helping in the design of converters some important features of the book are in depth coverage of solid state power converters extensive comparative analysis of power converters with a view to providing design criteria numerous worked examples practice problems and multiple choice questions for an in depth and clear understanding of concepts application of converters in the speed control of electric motors is discussed in detailthis book would serve as a useful text for undergraduate and graduate courses in power electronics and also as a reference for practicing engineers who are involved in the design and development of the power electronic converters

control of power electronic converters and systems examines the theory behind power electronic converter control including operation modeling and control of basic converters the book explores how to manipulate components of power electronics converters and systems to produce a desired effect by controlling system variables advances in power electronics enable new applications to emerge and performance improvement in existing applications these advances rely on control effectiveness making it essential to apply appropriate control schemes to the converter and system to obtain the desired performance

this book covers power electronics in depth by presenting the basic principles and application details which can be used both as a textbook and reference book introduces a new method to present power electronics converters called power blocks geometry pbg applicable for courses focusing on power electronics power electronics converters and advanced power converters offers a comprehensive set of simulation results to help understand the circuits presented throughout the book

compiles current research into the analysis and design of power electronic converters for industrial applications and renewable energy systems presenting modern and future applications of power electronics systems in the field of electrical vehicles with emphasis on the importance and long term viability of power electronics for renewable energy this book brings together the state of the art knowledge and cutting edge techniques in various stages of research the topics included are not currently available for practicing professionals and aim to enable the reader to directly apply the knowledge gained to their designs the book addresses the practical issues of current and future electric and plug in hybrid electric vehicles phevs and focuses primarily on power electronics and motor drives based solutions for electric vehicle ev technologies propulsion system requirements and motor sizing for evs is discussed along with practical system sizing examples key ev battery technologies are explained as well as corresponding battery management issues phev power system architectures and advanced power electronics intensive charging infrastructures for evs and phevs are detailed ev phev interface with renewable energy is described with practical examples this book explores new topics for further research needed world wide and defines existing challenges concerns and selected problems that comply with international trends standards and programs for electric power conversion distribution and sustainable energy development it will lead to the advancement of the current state of the art applications of power electronics for renewable energy transportation and industrial applications and will help add experience in the various industries and academia about the energy conversion technology and distributed energy sources combines state of the art global expertise to present the latest research on power electronics and its application in transportation renewable energy and different industrial applications offers an overview of existing technology and future trends with discussion and analysis of different types of converters and control techniques power converters high performance power devices power system high performance control system and novel applications systematic explanation to provide researchers with enough background and understanding to go deeper in the topics covered in the book

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 dc dc dc dc ac and ac ac with a variable output magnitude and frequency power electronics has many applications in our every day life such as air conditioners electric cars sub way 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 25 new content reorganized and revised into 8 sections comprising 43 chapters coverage of numerous applications including uninterruptable power supplies and automotive electrical systems new content in power generation and distribution including solar power fuel cells wind turbines and

flexible transmission

this book provides a comprehensive overview of power electronic converters dc dc dc ac ac dc and ac ac conventionally used in industrial and transportation applications specifically for the supply of electric machines with variable speed drop off window from the perspective of design and sizing this book presents the different functions encountered in a modular way for power electronics power converters and their control details less traditional topics such as matrix converters and multilevel converters this book also features a case study design of an industrial controller which is a synthesis except the ac ac direct conversion of the study subjects including sizing associated passive components introducing essential notions in power electronics from both theoretical and technological perspectives detailed chapters focusing on power supplies for electrical machinery including a case study of full dimensioning of an industrial variable speed drive presented from a user s perspective to enable you to apply the theory of power electronics to practical applications

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