

2022 IEEE International Power Electronics and Application Conference and Exposition (PEAC 2022)

**Xiamen, China
4-7 November 2022**

Pages 1-550

IEEE Catalog Number: CFP2236Y-POD
ISBN: 978-1-6654-9142-6



1998 Ieee International Power Electronics Congress

Wai-Kai Chen



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Index of Conference Proceedings British Library. Document Supply Centre, 2002 *Electromagnetic Fields in Mechatronics, Electrical and Electronic Engineering* A. Krawczyk, S. Wiak, X.M. Lopez-Fernandez, 2006-08-15 More and more researchers engage into investigation of electromagnetic applications especially these connected with mechatronics information technologies medicine biology and material sciences It is readily seen when looking at the content of the book that computational techniques which were under development during the last three decades and are still being developed serve as good tools for discovering new electromagnetic phenomena It means that the field of computational electromagnetics belongs to an application area rather than to a research area This publication aims at joining theory and practice thus the majority of papers are deeply rooted in engineering problems being simultaneously of high theoretical level The editors hope to touch the heart of the matter in electromagnetism The book focuses on the following issues Computational Electromagnetics Electromagnetic Engineering Coupled Field and Special Applications Micro and Special Devices Bioelectromagnetics and Electromagnetic Hazard and Magnetic Material Modeling Recent Advances in Power Electronics and Drives Shailendra Kumar, Bhim Singh, Arun Kumar Singh, 2022-05-26 This book contains select proceedings of EPREC 2021 with a focus on power electronics and drives The book includes original research and case studies that present recent developments in power electronics focusing on power inverters and converters The book also consists of research work on electrical drives regulated power supplies operation of FACTS HVDC etc The book will be a valuable reference guide for beginners researchers and professionals interested in the advancements of power electronics and drives Advanced Anomaly Detection Technologies and Applications in Energy Systems Tinghui Ouyang, Yusen He, Xun Shen, Zhenhao Tang, Yahui Zhang, 2025-02-17 Anomaly detection is an important topic which has been well studied in diverse research areas and application domains It generally involves detection of abnormal data unhealthy status fault diagnosis and can be helpful to guarantee industrial systems stability security and economy As development of intelligent industries and sensor systems grows large amounts of data become easily available and challenges arise in industrial systems anomaly detection One typical case is the study within energy related systems like thermal energy renewable energy study e g wind energy photovoltaic electric vehicles and so on These systems can involve various data formats and more complex data structures making anomaly data detection a challenge Currently under the development of deep learning and big data analytics many promising results have been achieved in energy systems anomaly data detection However many challenging problems remain unsolved due to the complex nature of energy industries New techniques and advanced engineering applications on anomaly detection in energy systems still appeal to a wide range of scholars and industries **The VLSI Handbook** Wai-Kai Chen, 2018-10-03 For the new millenium Wai Kai Chen introduced a monumental reference for the design analysis and prediction of VLSI circuits The VLSI Handbook Still a valuable tool for dealing with the most dynamic field in engineering

this second edition includes 13 sections comprising nearly 100 chapters focused on the key concepts models and equations Written by a stellar international panel of expert contributors this handbook is a reliable comprehensive resource for real answers to practical problems It emphasizes fundamental theory underlying professional applications and also reflects key areas of industrial and research focus WHAT S IN THE SECOND EDITION Sections on Low power electronics and design VLSI signal processing Chapters on CMOS fabrication Content addressable memory Compound semiconductor RF circuits High speed circuit design principles SiGe HBT technology Bipolar junction transistor amplifiers Performance modeling and analysis using SystemC Design languages expanded from two chapters to twelve Testing of digital systems Structured for convenient navigation and loaded with practical solutions The VLSI Handbook Second Edition remains the first choice for answers to the problems and challenges faced daily in engineering practice *The IGBT Device* B. Jayant Baliga, 2015-03-06 The IGBT device has proved to be a highly important Power Semiconductor providing the basis for adjustable speed motor drives used in air conditioning and refrigeration and railway locomotives electronic ignition systems for gasolinepowered motor vehicles and energy saving compact fluorescent light bulbs Recent applications include plasma displays flat screen TVs and electric power transmission systems alternative energy systems and energy storage This book is the first available to cover the applications of the IGBT and provide the essential information needed by applications engineers to design new products using the device in sectors including consumer industrial lighting transportation medical and renewable energy The author B Jayant Baliga invented the IGBT in 1980 while working for GE His book will unlock IGBT for a new generation of engineering applications making it essential reading for a wide audience of electrical engineers and design engineers as well as an important publication for semiconductor specialists Essential design information for applications engineers utilizing IGBTs in the consumer industrial lighting transportation medical and renewable energy sectors Readers will learn the methodology for the design of IGBT chips including edge terminations cell topologies gate layouts and integrated current sensors The first book to cover applications of the IGBT a device manufactured around the world by more than a dozen companies with sales exceeding 5 Billion written by the inventor of the device **Applied Intelligent Control of Induction Motor Drives** Tze Fun Chan, Keli Shi, 2011-01-19 Induction motors are the most important workhorses in industry They are mostly used as constant speed drives when fed from a voltage source of fixed frequency Advent of advanced power electronic converters and powerful digital signal processors however has made possible the development of high performance adjustable speed AC motor drives This book aims to explore new areas of induction motor control based on artificial intelligence AI techniques in order to make the controller less sensitive to parameter changes Selected AI techniques are applied for different induction motor control strategies The book presents a practical computer simulation model of the induction motor that could be used for studying various induction motor drive operations The control strategies explored include expert system based acceleration control hybrid fuzzy PI two stage control neural network based direct self

control and genetic algorithm based extended Kalman filter for rotor speed estimation There are also chapters on neural network based parameter estimation genetic algorithm based optimized random PWM strategy and experimental investigations A chapter is provided as a primer for readers to get started with simulation studies on various AI techniques Presents major artificial intelligence techniques to induction motor drives Uses a practical simulation approach to get interested readers started on drive development Authored by experienced scientists with over 20 years of experience in the field Provides numerous examples and the latest research results Simulation programs available from the book's Companion Website This book will be invaluable to graduate students and research engineers who specialize in electric motor drives electric vehicles and electric ship propulsion Graduate students in intelligent control applied electric motion and energy as well as engineers in industrial electronics automation and electrical transportation will also find this book helpful Simulation materials available for download at www.wiley.com/go/chanmotor

Advanced Electrical Drives Rik De Doncker, Duco W.J. Pulle, André Veltman, 2010-11-30 Electrical drives convert in a controlled manner electrical energy into mechanical energy Electrical drives comprise an electrical machine i.e. an electro mechanical energy converter a power electronic converter i.e. an electrical to electrical converter and a controller communication unit Today electrical drives are used as propulsion systems in high speed trains elevators escalators electric ships electric forklift trucks and electric vehicles Advanced control algorithms mostly digitally implemented allow torque control over a high bandwidth Hence precise motion control can be achieved Examples are drives in robots pick and place machines factory automation hardware etc Most drives can operate in motoring and generating mode Wind turbines use electrical drives to convert wind energy into electrical energy More and more variable speed drives are used to save energy for example in air conditioning units compressors blowers pumps and home appliances Key to ensure stable operation of a drive in the aforementioned applications are torque control algorithms In *Advanced Electrical Drives* a unique approach is followed to derive model based torque controllers for all types of Lorentz force machines i.e. DC synchronous and induction machines The rotating transformer model forms the basis for this generalized modeling approach that ultimately leads to the development of universal field oriented control algorithms In case of switched reluctance machines torque observers are proposed to implement direct torque algorithms From a didactic viewpoint tutorials are included at the end of each chapter The reader is encouraged to execute these tutorials to familiarize him or herself with all aspects of drive technology Hence *Advanced Electrical Drives* encourages learning by doing Furthermore the experienced drive specialist may find the simulation tools useful to design high performance controllers for all sorts of electrical drives

Computer Science and Convergence James (Jong Hyuk) Park, Han-Chieh Chao, Mohammad S. Obaidat, Jongsung Kim, 2011-12-10 *Computer Science and Convergence* is proceedings of the 3rd FTRA International Conference on Computer Science and its Applications CSA 11 and The 2011 FTRA World Convergence Conference FTRA WCC 2011 The topics of CSA and WCC cover the current hot topics satisfying the world wide

ever changing needs CSA 11 will be the most comprehensive conference focused on the various aspects of advances in computer science and its applications and will provide an opportunity for academic and industry professionals to discuss the latest issues and progress in the area of CSA In addition the conference will publish high quality papers which are closely related to the various theories and practical applications in CSA Furthermore we expect that the conference and its publications will be a trigger for further related research and technology improvements in this important subject The main scope of CSA 11 is as follows Mobile and ubiquitous computing Dependable reliable and autonomic computing Security and trust management Multimedia systems and services Networking and communications Database and data mining Game and software engineering Grid cloud and scalable computing Embedded system and software Artificial intelligence Distributed and parallel algorithms Web and internet computing IT policy and business management WCC 11 is a major conference for scientists engineers and practitioners throughout the world to present the latest research results ideas developments and applications in all areas of convergence technologies The main scope of WCC 11 is as follows Cryptography and Security for Converged environments Wireless sensor network for Converged environments Multimedia for Converged environments Advanced Vehicular Communications Technology for Converged environments Human centric computing P2P Grid and Cloud computing for Converged environments U Healthcare for Converged environments Strategic Security Management for Industrial Technology Advances in Artificial Intelligence and Surveillance Systems

Mathematical Modelling of System Resilience Kanchan Das, Mangey Ram, 2022-09-01 Almost all the systems in our world including technical social economic and environmental systems are becoming interconnected and increasingly complex and as such they are vulnerable to various risks Due to this trend resilience creation is becoming more important to system managers and decision makers this to ensure sustained performance In order to be able to ensure an acceptable sustained performance under such interconnectedness and complexity resilience creation with a system approach is a requirement Mathematical modeling based approaches are the most common approach for system resilience creation Mathematical Modelling of System Resilience covers resilience creation for various system aspects including a functional system of the supply chain overall supply chain systems various methodologies for modeling system resilience satellite based approach for addressing climate related risks repair based approach for sustainable performance of an engineering system and modeling measures of the reliability for a vertical take off and landing system Each of the chapters contributes state of the art research for the relevant resilience related topic covered in the chapter Technical topics covered in the book include 1 Supply chain risk vulnerability and disruptions 2 System resilience for containing failures and disruptions 3 Resiliency considering frequency and intensities of disasters 4 Resilience performance index 5 Resiliency of electric Traction system 6 Degree of resilience 7 Satellite observation and hydrological risk 8 Latitude of Resilience 9 On line repair for resilience 10 Reliability design for Vertical Takeoff and landing Prototype

Power Systems Leonard L. Grigsby, 2007-05-30 Part of the second edition of The Electric

Power Engineering Handbook Power Systems offers focused and detailed coverage of all aspects concerning power system analysis and simulation transients planning reliability and power electronics Contributed by worldwide leaders under the guidance of one of the world s most respected and accomplished Information Control Problems in Manufacturing 2006 Alexandre Dolgui, Gerard Morel, Carlos Eduardo Pereira, 2011-10-10 Information Control Problems in Manufacturing 2006 contains the Proceedings of the 12th IFAC Symposium on Information Control Problems in Manufacturing INCOM 2006 This symposium took place in Saint Etienne France on May 17 19 2006 INCOM is a tri annual event of symposia series organized by IFAC and it is promoted by the IFAC Technical Committee on Manufacturing Plant Control The purpose of the symposium INCOM 2006 was to offer a forum to present the state of the art in international research and development work with special emphasis on the applications of optimisation methods automation and IT technologies in the control of manufacturing plants and the entire supply chain within the enterprise The symposium stressed the scientific challenges and issues covering the whole product and processes life cycle from the design through the manufacturing and maintenance to the distribution and service INCOM 2006 Technical Program also included a special event on Innovative Engineering Techniques in Healthcare Delivery The application of engineering and IT methods in medicine is a rapidly growing field with many opportunities for innovation The Proceedings are composed of 3 volumes Volume 1 Information Systems Control Interoperability Volume 2 Industrial Engineering Volume 3 Operational Research 3 volume set containing 362 carefully reviewed and selected papers presenting the state of the art in international research and development in Information Control problems in Manufacturing

Iaeng Transactions On Engineering Sciences: Special Issue For The International Association Of Engineers Conferences 2014 Sio-iong Ao, Alan Hoi-shou Chan, Hideki Katagiri, Li Xu, 2015-03-11 Two large international conferences on Advances in Engineering Sciences were held in Hong Kong March 12 14 2014 under the International MultiConference of Engineers and Computer Scientists IMECS 2014 and in London UK 2 4 July 2014 under the World Congress on Engineering 2014 WCE 2014 respectively This volume contains 37 revised and extended research articles written by prominent researchers participating in the conferences Topics covered include engineering mathematics computer science electrical engineering manufacturing engineering industrial engineering and industrial applications The book offers tremendous state of the art advances in engineering sciences and also serves as an excellent reference work for researchers and graduate students working with on engineering sciences *Uninterruptible Power Supplies and Active Filters* Ali Emadi, Abdolhosein Nasiri, Stoyan B.

Bekiarov, 2017-12-19 As industry power demands become increasingly sensitive power quality distortion becomes a critical issue The recent increase in nonlinear loads drawing non sinusoidal currents has seen the introduction of various tools to manage the clean delivery of power Power demands of medical facilities data storage and information systems emergency equipment etc require uninterrupted high quality power Uninterruptible power supplies UPS and active filters provide this delivery The first to treat these power management tools together in a comprehensive discussion Uninterruptible Power

Supplies and Active Filters compares the similarities of UPS active filters and unified power quality conditioners. The book features a description of low cost and reduced parts configurations presented for the first time in any publication along with a presentation of advanced digital controllers. These configurations are vital as industries seek to reduce the cost of power management in their operations. As this field of power management technology continues to grow, industry and academia will come to rely upon the comprehensive treatment found within this book. Industrial engineers in power quality circuits and devices and aerospace engineers as well as graduate students will find this a complete and insightful resource for studying and applying the tools of this rapidly developing field. **Recent Advances in Robust Control** Andreas Müller, 2011-11-21

Robust control has been a topic of active research in the last three decades culminating in H_2 , H_∞ and μ design methods followed by research on parametric robustness initially motivated by Kharitonov's theorem, the extension to non-linear time delay systems and other more recent methods. The two volumes of *Recent Advances in Robust Control* give a selective overview of recent theoretical developments and present selected application examples. The volumes comprise 39 contributions covering various theoretical aspects as well as different application areas. The first volume covers selected problems in the theory of robust control and its application to robotic and electromechanical systems. The second volume is dedicated to special topics in robust control and problem specific solutions. *Recent Advances in Robust Control* will be a valuable reference for those interested in the recent theoretical advances and for researchers working in the broad field of robotics and mechatronics. High-Power Converters and AC Drives Bin Wu, 2007-01-29

This book presents the latest cutting edge technology in high power converters and medium voltage drives and provides a complete analysis of various converter topologies, modulation techniques, practical drive configurations and advanced control schemes. Supplemented with more than 250 illustrations, the author illustrates key concepts with simulations and experiments. Practical problems along with accompanying solutions are presented to help you tackle real world issues. *Advanced Solutions in Power Systems*

Mircea Eremia, Chen-Ching Liu, Abdel-Aty Edris, 2016-10-03 Provides insight on both classical means and new trends in the application of power electronic and artificial intelligence techniques in power system operation and control. This book presents advanced solutions for power system controllability, improvement, transmission capability enhancement and operation planning. The book is organized into three parts. The first part describes the CSC HVDC and VSC HVDC technologies; the second part presents the FACTS devices; and the third part refers to the artificial intelligence techniques. All technologies and tools approached in this book are essential for power system development to comply with the smart grid requirements. Discusses detailed operating principles and diagrams, theory of modeling, control strategies and physical installations around the world of HVDC and FACTS systems. Covers a wide range of Artificial Intelligence techniques that are successfully applied for many power system problems from planning and monitoring to operation and control. Each chapter is carefully edited with drawings and illustrations that helps the reader to easily understand the principles of operation or

application Advanced Solutions in Power Systems HVDC FACTS and Artificial Intelligence is written for graduate students researchers in transmission and distribution networks and power system operation This book also serves as a reference for professional software developers and practicing engineers

Alternative Energy in Power Electronics Muhammad H. Rashid, 2014-10-28 This new resource is a practical overview of designing testing and troubleshooting power electronics in alternative energy systems providing you with the most important information on how power electronics components such as inverters controllers and batteries can play a pivotal role in the successful implementation of green energy solutions for both stand alone and grid connected applications You will learn how to choose the right components for diverse systems from utility scale wind farms to photovoltaic panels on single residences how to get the most out of existing systems and how to solve the tough challenges particular to alternative energy applications Whether you are a renewables professional who needs to understand more about how power electronics impact energy output or a power engineer who is interested in learning what new avenues the alternative energy revolution is opening for your work start here with advice and explanations from the experts including equations diagrams and tables designed to help you understand and succeed Provides a thorough overview of the key technologies methods and challenges for implementing power electronics in alternative energy systems for optimal power generation Includes hard to find information on how to apply converters inverters batteries controllers and more for stand alone and grid connected systems Covers wind and solar applications as well as ocean and geothermal energy hybrid systems and fuel cells

Soft Computing and Industry Rajkumar Roy, Mario Köppen, Seppo Ovaska, Takeshi Furuhashi, Frank Hoffmann, 2012-12-06 Soft computing embraces various methodologies for the development of intelligent systems that have been successfully applied to a large number of real world problems Soft Computing in Industry contains a collection of papers that were presented at the 6th On line World Conference on Soft Computing in Industrial Applications that was held in September 2001 It provides a comprehensive overview of recent theoretical developments in soft computing as well as of successful industrial applications It is divided into seven parts covering material on keynote papers on various subjects ranging from computing with autopoietic systems to the effects of the Internet on education intelligent control classification clustering and optimization image and signal processing agents multimedia and Internet theoretical advances prediction design and diagnosis The book is aimed at researchers and professional engineers who develop and apply intelligent systems in computer engineering

Electric Drives Ion Boldea, 2025-09-10 Electric Drives now in its fourth edition provides a practical guide in understanding the fundamental principles and recent new knowledge of electric motion in motoring and electric energy flow in generating digital control via power electronics for energy savings and increased productivity in practically all industries from intelligent watches and phones to robots electric transport industrial processes and modern distributed electric power systems with ever more renewable energy penetration Every proposition number figure and reference has been revisited to bring necessary changes

with new references to key recent knowledge trends to reflect the present state of the art The book has been restructured with a few chapters combined and one chapter on rectifier d c brush motor drives removed new introductory paragraphs in most chapters many as inspiring case studies and brand new chapters on flux modulation machine drives Chapter 8 and predictive control of a c drives Chapter 15 reflecting this updating effort The large number of new case studies complements the large number of worked numerical examples and the 10 user friendly MATLABR and SimulinkR programs that remain available online Although inevitably the math is intensive and intended to be directly usable the book mainly intended for senior undergraduate and graduate students and engineers in research and development in industry is a practical easy to assimilate and up to date synthesis of basic and advanced power electronics variable speed electric motor generator drives needed in all industries in which electric energy flow wise mainly digitally intelligent control is paramount

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