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Electrical & Electronics Abstracts - 1997

Advanced Electrical Drives - Rik W. De Doncker 2020-08-21

This book provides a unique approach 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 the generalized modeling approach of rotating field machines, which leads to the development of universal field-oriented control algorithms. Contrary to this, direct torque control algorithms, using observer-based methods, are developed for switched reluctance machines. Tutorials are included at the end of each chapter, and the reader is encouraged to execute these tutorials in order to gain familiarity with the dynamic behavior of drive systems. This updated edition uses PLECS® simulation and vector processing tools that were specifically adopted for the purpose of these hands-on tutorials. Hence, *Advanced Electrical Drives* encourages “learning by doing” and the experienced drive specialist may find the simulation tools useful to design high-performance torque controllers. Although it is a powerful reference in its own right, when used in conjunction with the companion texts *Fundamentals of Electrical Drives* and *Applied Control of Electrical Drives*, this book provides a uniquely comprehensive reference set that takes readers all the way from understanding the basics of how electrical drives work, to deep familiarity with advanced features and models, to a mastery of applying the concepts to actual hardware in practice. Teaches readers to perform insightful analysis of AC electrical machines and drives; Introduces new modeling methods and modern control techniques for switched reluctance drives; Updated to use PLECS® simulation tools for modeling electrical drives, including new and more experimental results; Numerous tutorials at end of each chapter to learn by doing, step-by-step; Includes extra material featuring “build and play” lab modules, for lectures and self-study.

IAS '98 - IEEE Industry Applications Society. Meeting 1998

Electric Vehicle Machines and Drives - K. T. Chau 2015-05-13

A timely comprehensive reference consolidates the research and development of electric vehicle machines and drives for electric and hybrid propulsions • Focuses on electric vehicle machines and drives • Covers the major technologies in the area including fundamental concepts and applications • Emphasis the design criteria, performance analyses and application examples or potentials of various motor drives and machine systems • Accompanying website includes the simulation models and outcomes as supplementary material

Intelligent Computing and Optimization - Pandian Vasant 2021-02-07

Third edition of International Conference on Intelligent Computing and Optimization and as a premium fruit, this book, pursue to gather research leaders, experts and scientists on Intelligent Computing and Optimization to share knowledge, experience and current research achievements. Conference and book provide a unique opportunity for the global community to interact and share novel research results, explorations and innovations among colleagues and friends. This book is published by SPRINGER, *Advances in Intelligent Systems and Computing*. Ca. 100 authors submitted full papers to ICO'2020. That global representation demonstrates the growing interest of the research community here. The book covers innovative and creative research on sustainability, smart cities, meta-heuristics optimization, cyber-security, block chain, big data analytics, IoTs, renewable energy, artificial intelligence, Industry 4.0, modeling and simulation. We editors thank all authors and reviewers for their important service. Best high-quality papers have been selected by the International PC for our premium series with SPRINGER.

IEEE Conference Record of Annual Conference of Electrical Engineering Problems in the Rubber and Plastics Industry - 1980

The Dhaka University Journal of Science - 2003

INTELEC - 2004

Proceedings of the International Conference on Information Engineering, Management and Security 2015 - Vignesh

Ramakrishnan 2015-08-13

ICIEMS 2015 is the conference aim is to provide a platform for researchers, engineers, academicians as well as industrial professionals from all over the world to present their research results and development activities in Engineering Technology, Industrial Engineering, Application Level Security and Management Science. This conference provides opportunities for the delegates to exchange new ideas and application experiences face to face, to establish business or research relations and to find global partners for future collaboration.

A Digital Phase-lock Loop - Long Yang 2005

Oceans '99 MTS/IEEE - 1999

IEEE Conference Record of ... Annual Conference of Electrical Engineering Problems in the Rubber and Plastics Industries - 1980

Electronics World + Wireless World - 1993

Tools of Transport Telematics - Jerzy Mikulski 2016-01-12

This book constitutes the proceedings of the 15th International Conference on Transport Systems Telematics, TST 2015, held in Wrocław, Poland, in April 2015. The 35 revised full papers and two short papers included in this volume were carefully reviewed and selected from 115 submissions. The papers provide an overview of solutions being developed in the fields of transport telematics and intelligent transport systems.

Index to IEEE Publications - Institute of Electrical and Electronics Engineers 1998

Issues for 1973- cover the entire IEEE technical literature.

Proceedings IECON. - 2002

Wireless Communications - Asrar U. H. Sheikh 2004

Wireless Communications: Theory and Techniques covers fundamental concepts of wireless communications including extensive discussion of cellular system design principles, interference and signal processing related topics. The author identifies the complexities of providing reliable wireless communications in the presence of several signal impairing parameters of the channel. The first part of the book concentrates on mobile radio channels and the impairments these induce in signals propagating over them. These impairments include signal attenuation, fading - selective or flat, slow or fast, and interference. The second part addresses signal reception and processing for minimizing the impact of channel impairments. The third part brings into perspective cellular system design and covers cellular systems that are in commercial operation. The five 3G interface standards are described. Practical treatment of certain essential wireless topics such as antennas, electromagnetic waves and propagation is provided. The material is extensively illustrated and provides comprehensive lists of reference after each chapter. Numerous solved examples and problems to help the reader are included. Problems are provided at the end of chapters for homework and review. This book is for graduate level courses on wireless communications but it can also be adapted for the senior undergraduate level course by omitting material involving the more difficult mathematical manipulations. Professionals will find a wealth of practical insight gained from the author's years of experience in the field.

Designing Embedded Systems with Arduino - Tianhong Pan 2017-05-16
In this DIY guide, you will learn how to use Arduino - the open-source

hardware board for makers, hobbyists, and inventors. You will learn how to develop your own projects, create prototypes, and produce professional-quality embedded systems. A simple step-by-step demonstration system accompanies you from vision to reality - and just like riding a bike, you'll get better at it, the more you do it. Featuring a wealth of detailed diagrams and more than 50 fully functional examples, this book will help you get the most out of this versatile tool and bring your electronic inventions to life.

Computational Aspects of Electromechanical Energy Converters and Drives - International Association for Mathematics and Computers in Simulation. International Conference 1993

IEEE Membership Directory - Institute of Electrical and Electronics Engineers 2000

Conference Proceedings - 1999

Dissertation Abstracts International - 2006

IEEE Conference Record - 1980

Applied Science & Technology Index - 2000

Nanogrids, Microgrids, and the Internet of Things (IoT) - Antonio Moreno-Munoz 2019-11-20

Driven by new regulations, new market structures, and new energy resources, the smart grid has been the trigger for profound changes in the way that electricity is generated, distributed, managed, and consumed. The smart grid has raised the traditional power grid by using a two-way electricity and information flow to create an advanced, automated power supply network. However, these pioneering smart grid technologies must grow to adapt to the demands of the current digital society. In today's digital landscape, we can access feasible data and knowledge that were merely inconceivable. This Special Issue aims to address the landscape in which smart grids are progressing, due to the advent of pervasive technologies like the Internet of Things (IoT). It will be the advanced exploitation of the massive amounts of data generated from (low-cost) IoT sensors that will become the main driver to evolve the concept of the smart grid, currently focused on infrastructure, towards the digital energy network paradigm, focused on service. Furthermore, collective intelligence will improve the processes of decision making and empower citizens. Original manuscripts focusing on state-of-the-art IoT networking and communications, M2M communications, cyberphysical system architectures, big data analytics or cloud computing applied to digital energy platforms, including design methodologies and practical implementation aspects, are welcome.

Futuristic Communication and Network Technologies - A. Sivasubramanian 2021-10-11

This book presents select proceedings of the International Conference on Futuristic Communication and Network Technologies (CFCNT 2020) conducted at Vellore Institute of Technology, Chennai. It covers various domains in communication engineering and networking technologies. This volume comprises of recent research in areas like optical communication, optical networks, optics and optical computing, emerging trends in photonics, MEMS and sensors, active and passive RF components and devices, antenna systems and applications, RF devices and antennas for microwave emerging technologies, wireless communication for future networks, signal and image processing, machine learning/AI for networks, internet of intelligent things, network security and blockchain technologies. This book will be useful for researchers, professionals, and engineers working in the core areas of electronics and communication.

Digital Signal Processing Applications - 1999

Proceedings of the ... Annual Conference of the IEEE Industrial Electronics Society - IEEE Industrial Electronics Society. Conference 2004

The Computer Engineering Handbook - Vojin G. Oklobdzija 2019-07-05

After nearly six years as the field's leading reference, the second edition of this award-winning handbook reemerges with completely updated content and a brand new format. The Computer Engineering Handbook, Second Edition is now offered as a set of two carefully focused books that together encompass all aspects of the field. In addition to complete

updates throughout the book to reflect the latest issues in low-power design, embedded processors, and new standards, this edition includes a new section on computer memory and storage as well as several new chapters on such topics as semiconductor memory circuits, stream and wireless processors, and nonvolatile memory technologies and applications.

Energy Management in Illuminating Systems - Kao Chen 2018-02-06
As our dependence on and need for abundant energy grows, it becomes increasingly important for engineers and managers to develop and maintain energy efficient systems and build effective energy management programs. Energy Management in Illuminating Systems presents the latest concepts, innovative methods, and state-of-the-art technologies in commercial or industrial lighting systems and energy management. An effective energy management program comprises three essential elements: organization, technology, and economics. However, the success of any management program clearly must begin with an energy effective illuminating system, which in turn depends upon using sound engineering analysis and design principles during the projects early stages. In this book, the author-with long and unique experience in the field-provides the details of proven methods for achieving these goals. He presents: How to organize and operate the illumination energy management program The elements of designing energy effective illuminating systems-systems that can also increase worker productivity and reduce operating costs The latest in efficient system components, including light sources, ballasts, and luminaires How to evaluate energy efficiency, including discussion of the impact of energy efficient equipment on power quality, harmonics, the "K" factor, and lighting energy standards Energy Management in Illuminating Systems shows how to design and manage energy effective lighting systems for industrial or commercial facilities. With this book, designers, engineers, and managers finally have a complete, how-to guide for applying practical energy management principles to various systems of illumination.

Inductive Power Transfer Systems - Udaya K. Madawala 2017-05-15
One of the first books to describe and provide both theoretical and practical analyses on IPT technology Illustrated throughout with figures, circuit topologies, design examples, simulation/experimental results, and questions and answers Addresses a fast moving technology with applications in transport, telecommunications and industry Accompanying website includes MATLAB examples, exercises, problems and solutions

Wireless Sensor Networks - Kazem Sohraby 2007-04-06
Infrastructure for Homeland Security Environments Wireless Sensor Networks helps readers discover the emerging field of low-cost standards-based sensors that promise a high order of spatial and temporal resolution and accuracy in an ever-increasing universe of applications. It shares the latest advances in science and engineering paving the way towards a large plethora of new applications in such areas as infrastructure protection and security, healthcare, energy, food safety, RFID, ZigBee, and processing. Unlike other books on wireless sensor networks that focus on limited topics in the field, this book is a broad introduction that covers all the major technology, standards, and application topics. It contains everything readers need to know to enter this burgeoning field, including current applications and promising research and development; communication and networking protocols; middleware architecture for wireless sensor networks; and security and management. The straightforward and engaging writing style of this book makes even complex concepts and processes easy to follow and understand. In addition, it offers several features that help readers grasp the material and then apply their knowledge in designing their own wireless sensor network systems: * Examples illustrate how concepts are applied to the development and application of * wireless sensor networks * Detailed case studies set forth all the steps of design and implementation needed to solve real-world problems * Chapter conclusions that serve as an excellent review by stressing the chapter's key concepts * References in each chapter guide readers to in-depth discussions of individual topics This book is ideal for networking designers and engineers who want to fully exploit this new technology and for government employees who are concerned about homeland security. With its examples, it is appropriate for use as a coursebook for upper-level undergraduates and graduate students.

Advances in Communication Systems and Networks - J. Jayakumari 2020-06-13

This book presents the selected peer-reviewed papers from the International Conference on Communication Systems and Networks

(ComNet) 2019. Highlighting the latest findings, ideas, developments and applications in all areas of advanced communication systems and networking, it covers a variety of topics, including next-generation wireless technologies such as 5G, new hardware platforms, antenna design, applications of artificial intelligence (AI), signal processing and optimization techniques. Given its scope, this book can be useful for beginners, researchers and professionals working in wireless communication and networks, and other allied fields.

Airborne Wind Energy - Roland Schmehl 2018-03-31

This book provides in-depth coverage of the latest research and development activities concerning innovative wind energy technologies intended to replace fossil fuels on an economical basis. A characteristic feature of the various conversion concepts discussed is the use of tethered flying devices to substantially reduce the material consumption per installed unit and to access wind energy at higher altitudes, where the wind is more consistent. The introductory chapter describes the emergence and economic dimension of airborne wind energy. Focusing on "Fundamentals, Modeling & Simulation", Part I includes six contributions that describe quasi-steady as well as dynamic models and simulations of airborne wind energy systems or individual components. Shifting the spotlight to "Control, Optimization & Flight State Measurement", Part II combines one chapter on measurement techniques with five chapters on control of kite and ground stations, and two chapters on optimization. Part III on "Concept Design & Analysis" includes three chapters that present and analyze novel harvesting concepts as well as two chapters on system component design. Part IV, which centers on "Implemented Concepts", presents five chapters on established system concepts and one chapter about a subsystem for automatic launching and landing of kites. In closing, Part V focuses with four chapters on "Technology Deployment" related to market and financing strategies, as well as on regulation and the environment. The

book builds on the success of the first volume "Airborne Wind Energy" (Springer, 2013), and offers a self-contained reference guide for researchers, scientists, professionals and students. The respective chapters were contributed by a broad variety of authors: academics, practicing engineers and inventors, all of whom are experts in their respective fields.

The Journal of the Acoustical Society of America - Acoustical Society of America 2001

Proceedings - 1999

Proceedings of the IEEE International Conference on Industrial Technology (ICIT ...) - 2004

Advances in Engineering Design - Preeti Joshi 2021-05-02

This book presents select proceedings of the International Conference on Future Learning Aspects of Mechanical Engineering (FLAME 2020). The book focuses on latest research in mechanical engineering design and covers topics such as computational mechanics, finite element modeling, computer aided engineering and analysis, fracture mechanics, and vibration. The book brings together different aspects of engineering design and the contents will be useful for researchers and professionals working in this field.

2018 IEEMA Engineer Infinite Conference (eTechNxT) - IEEE Staff 2018-03-13

The scope of the conference is to showcase futuristic technologies focused on Digital transformation of power delivery, Energy storage systems & solutions, IoT and e Transportation and the opportunities therein

Science Abstracts - 1995