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Conference record of 1992 Forty-Fourth Annual Conference of Electrical Engineering Problems in the Rubber and Plastics Industries Springer Nature
The second edition of this must-have reference covers power quality issues in four parts, including new discussions related to renewable energy systems. The first part of the book provides background on causes, effects, standards, and measurements of power quality and harmonics. Once the basics are established the authors move on to harmonic modeling of power systems, including components and apparatus (electric machines). The final part of the book is devoted to power quality mitigation approaches and devices, and the fourth part extends the analysis to power quality solutions for renewable energy systems. Throughout the book worked examples and exercises provide practical applications, and tables, charts, and graphs offer useful data for the modeling and analysis of power quality issues. Provides theoretical and practical insight into power quality problems of electric machines and systems 134 practical application (example) problems with solutions 125 problems at the end of chapters dealing with practical applications 924 references, mostly journal articles and conference papers, as well as national and international standards and guidelines

Proceedings of the 13th International Conference on Computer Engineering and Networks Academic Press

This book aims to examine innovation in the fields of computer engineering and networking. The text covers important developments in areas such as artificial intelligence, machine learning, information analysis, communication system, computer modeling, internet of things. This book presents papers from the 13th International Conference on Computer Engineering and Networks (CENet2023) held in Wuxi, China on November 3-5, 2023.

Power Quality in Power Systems and Electrical Machines Springer Science & Business Media

The power consumption of microprocessors is one of the most important challenges of high-performance chips and portable devices. In chapters drawn from Piguet's recently published *Low-Power Electronics Design*, *Low-Power CMOS Circuits: Technology, Logic Design, and CAD Tools* addresses the design of low-power circuitry in deep submicron technologies. It provides a focused reference for specialists involved in designing low-power

circuitry, from transistors to logic gates. The book is organized into three broad sections for convenient access. The first examines the history of low-power electronics along with a look at emerging and possible future technologies. It also considers other technologies, such as nanotechnologies and optical chips, that may be useful in designing integrated circuits. The second part explains the techniques used to reduce power consumption at low levels. These include clock gating, leakage reduction, interconnecting and communication on chips, and adiabatic circuits. The final section discusses various CAD tools for designing low-power circuits. This section includes three chapters that demonstrate the tools and low-power design issues at three major companies that produce logic synthesizers. Providing detailed examinations contributed by leading experts, *Low-Power CMOS Circuits: Technology, Logic Design, and CAD Tools* supplies authoritative information on how to design and model for high performance with low power consumption in modern integrated circuits. It is a must-read for anyone designing modern computers or embedded systems.

New Media Communication Skills for Engineers and IT Professionals: Trans-National and Trans-Cultural Demands Springer Science & Business Media

The 2018 IEEE International Conference on High Voltage Engineering (ICHVE 2018) was held on 10-13 September 2018 in Athens, Greece, organized by the National Technical University of Athens, Greece, and endorsed by the IEEE Dielectrics and Electrical Insulation Society. This conference has attracted a great deal of attention from international researchers in the field of high voltage engineering. This conference provided not only an excellent platform to share knowledge and experiences on high voltage engineering, but also the opportunity to present the latest achievements and different emerging challenges in power engineering, including topics related to ultra-high voltage, smart grids, and new insulation materials and their dielectric properties.

Plasma Engineering Academic Press

Explores how we judge engineering education in order to effectively redesign courses and programs that will prepare new engineers for various professional and academic careers Shows how present approaches to assessment were shaped and what the future holds Analyzes the validity of teaching and judging engineering education Shows the integral role that assessment plays in curriculum design and implementation Examines the sociotechnical system's impact on engineering curricula

Design Requirements Engineering: A Ten-Year Perspective Springer Science & Business Media

"History of the American society of mechanical engineers. Preliminary report of the committee on Society history," issued from time to time, beginning with v. 30, Feb. 1908.

Standards for the Sustainable Development Goals Academic Press

The book contains high quality papers presented in the Fifth

International Conference on Innovations in Electronics and Communication Engineering (ICIECE 2016) held at Guru Nanak Institutions, Hyderabad, India during 8 and 9 July 2016. The objective is to provide the latest developments in the field of electronics and communication engineering specially the areas like Image Processing, Wireless Communications, Radar Signal Processing, Embedded Systems and VLSI Design. The book aims to provide an opportunity for researchers, scientists, technocrats, academicians and engineers to exchange their innovative ideas and research findings in the field of Electronics and Communication Engineering.

Sustainable Technology and Advanced Computing in Electrical Engineering Elsevier

Advances in Computers

Low-Power Electronics Design Springer Nature

The communication demands expected of today's engineers and information technology professionals immersed in multicultural global enterprises are unsurpassed. New Media Communication Skills for Engineers and IT Professionals: Trans-National and Trans-Cultural Demands provides new and experienced practitioners, academics, employers, researchers, and students with international examples of best practices in new, as well as traditional, communication skills in increasingly trans-cultural, digitalized, hypertext environments. This book will be a valuable addition to the existing literature and resources in communication skills in both organizational and higher educational settings, giving readers comprehensive insights into the proficient use of a broad range of communication critical for effective professional participation in the globalized and digitized communication environments that characterize current engineering and IT workplaces.

Proceedings of the 1992 International Aerospace and Ground Conference on Lightning and Static Electricity Academic Press

This book presents different aspects of renewable energy integration, from the latest developments in renewable energy technologies to the currently growing smart grids. The importance of different renewable energy sources is discussed, in order to identify the advantages and challenges for each technology. The rules of connecting the renewable energy sources have also been covered along with practical examples. Since solar and wind energy are the most popular forms of renewable energy sources, this book provides the challenges of integrating these renewable generators along with some innovative solutions. As the complexity of power system operation has been raised due to the renewable energy integration, this book also includes some analysis to investigate the characteristics of power systems in a smarter way. This book is intended for those working in the area of renewable energy integration in distribution networks.

Innovations in Electrical and Electronic Engineering United Nations

Since its inception in 1968, software engineering has undergone numerous changes. In the early years, software development was organized using the waterfall model, where the focus of requirements engineering was on a frozen requirements document, which formed the basis of the subsequent design and implementation process. Since then, a lot has changed: software has to be developed faster, in larger and distributed teams, for pervasive as well as large-scale applications, with more flexibility, and with ongoing maintenance and quick release cycles. What do these ongoing developments and changes imply for the future of requirements engineering and software design? Now is the time to rethink the role of requirements and design for software intensive systems in transportation, life sciences, banking, e-government and other areas. Past assumptions need to be questioned, research and education need to be rethought. This book is based on the Design Requirements Workshop, held June 3-6, 2007, in Cleveland, OH, USA, where leading researchers met to assess the current state of affairs and define new directions. The papers included were carefully reviewed and selected to give an overview of the current state of the art as well as an outlook on probable future challenges and priorities. After a general

introduction to the workshop and the related NSF-funded project, the contributions are organized in topical sections on fundamental concepts of design; evolution and the fluidity of design; quality and value-based requirements; requirements intertwining; and adapting requirements practices in different domains.

Selected Papers from 2018 IEEE International Conference on High Voltage Engineering (ICHVE 2018) Springer Science & Business Media

This book presents the proceedings of the 13th International Conference on Electrical Bioimpedance, ICEBI 2007, combined with the 8th Conference on Electrical Impedance Tomography, held at the Graz University of Technology in Graz, Austria, in August 2007. Ulrich's International Periodicals Directory Academic Press Power Quality in Power Systems, Electrical Machines, and Power-Electronic Drives uses current research and engineering practices, guidelines, standards, and regulations for engineering professionals and students interested in solving power quality problems in a cost effective, reliable, and safe manner within the context of renewable energy systems. The book contains chapters that address power quality across diverse facets of electric energy engineering, including AC and DC transmission and distribution lines; end-user applications such as electric machines, transformers, inductors, capacitors, wind power, and photovoltaic power plants; and variable-speed, variable-torque power-electronic drives. The book covers nonsinusoidal waveshapes, voltage disturbances, harmonic losses, aging and lifetime reductions, single-time events such as voltage dips, and the effects of variable-speed drives controlled by PWM converters. The book also reviews a corpus of techniques to mitigate power-quality problems, such as the optimal design of renewable energy storage devices (including lithium-ion batteries and fuel cells for automobiles serving as energy storage), and the optimal design of nonlinear loads for simultaneous efficiency and power quality. Provides theoretical and practical insights into power-quality problems related to future, smart grid, renewable, hybrid electric power systems, electric machines, and variable-speed, variable-torque power-electronic drives Contains a highly varied corpus of practical applications drawn from current international practice Designed as a self-study tool with end-of-chapter problems and solutions designed to build understanding Includes very highly referenced chapters that enable readers to save time and money in the research discovery process for critical research articles, regulatory standards, and guidelines

Future Trends in Biomedical and Health Informatics and Cybersecurity in Medical Devices MDPI

Contains 97 papers which provide a valuable overview of the latest technical innovations in this rapidly expanding field. Areas of development which receive particular attention include the emergence of power switching transistors, the application of microprocessors to regulation and control of static converters and electrical drives, the use of more sophisticated control strategies and the utilization of power electronics in new application fields.

Renewable Energy Integration Springer Nature

The general theme of MEDICON 2013 is "Research and Development of Technology for Sustainable Healthcare". This decade is being characterized by the appearance and use of emergent technologies under development. This situation has produced a tremendous impact on Medicine and Biology from which it is expected an unparalleled evolution in these disciplines towards novel concept and practices. The consequence will be a significant improvement in health care and well-fare, i.e. the shift from a reactive medicine to a preventive medicine. This shift implies that the citizen will play an important role in the healthcare delivery process, what requires a comprehensive and personalized assistance. In this context, society will meet emerging media, incorporated to all objects, capable of providing a seamless, adaptive, anticipatory, unobtrusive and pervasive assistance. The challenge will be to remove current barriers

related to the lack of knowledge required to produce new opportunities for all the society, while new paradigms are created for this inclusive society to be socially and economically sustainable, and respectful with the environment. In this way, these proceedings focus on the convergence of biomedical engineering topics ranging from formalized theory through experimental science and technological development to practical clinical applications.

Handbook of Electrical Power System Dynamics CRC Press

As software engineering (SE) becomes specialized and fragmented, it is easy to lose sight that many topics in SE have common threads and because of this, advances in one sub-discipline may transmit to another. The presentation of results between different sub-disciplines of SE encourages this interchange for the advancement of SE as a whole. Of particular interest is the hybrid approach of combining ideas from one discipline with those of another to achieve a result that is more significant than the sum of the individual parts. Through this hybrid philosophy, a new or common principle can be discovered which has the propensity to propagate throughout this multifaceted discipline. This volume comprises the selection of extended versions of papers that were presented in their shortened form at the 2008 International Conference on Advanced Software Engineering and Its Applications (<http://www.sersc.org/ASEA2008/>) and 2009 Advanced Science and Technology (<http://www.sersc.org/AST2009/>). We would like to acknowledge the great effort of all in the ASEA 2008 and AST 2009 International Advisory Board and members of the International Program Committee, as well as all the organizations and individuals who supported the idea of publishing these advances in software engineering, including SERSC (<http://www.sersc.org/>) and Springer. We would like to give special thanks to Rosslin John Robles, Maricel O. Balitanas, Farkhod Alisherov Alisherovich, Feruza Sattarova Yusfovna. These graduate school students of Hannam University attended to the editing process of this volume with great passion.

Handbook of Computational Intelligence in Biomedical Engineering and Healthcare John Wiley & Sons

Handbook of Computational Intelligence in Biomedical Engineering and Healthcare helps readers analyze and conduct advanced research in specialty healthcare applications surrounding oncology, genomics and genetic data, ontologies construction, bio-memetic systems, biomedical electronics, protein structure prediction, and biomedical data analysis. The book provides the reader with a comprehensive guide to advanced computational intelligence, spanning deep learning, fuzzy logic, connectionist systems, evolutionary computation, cellular automata, self-organizing systems, soft computing, and hybrid intelligent systems in biomedical and healthcare applications. Sections focus on important biomedical engineering applications, including biosensors, enzyme immobilization techniques, immunoassays, and nanomaterials for biosensors and other biomedical techniques. Other sections cover gene-based solutions and applications through computational intelligence techniques and the impact of nonlinear/unstructured data on experimental analysis. Presents a comprehensive handbook that covers an Introduction to Computational Intelligence in Biomedical Engineering and Healthcare, Computational Intelligence Techniques, and Advanced and Emerging Techniques in Computational Intelligence Helps readers analyze and do advanced research in specialty healthcare applications Includes links to websites, videos, articles and other online content to expand and support primary learning objectives

Power Quality in Power Systems, Electrical Machines, and Power-Electronic Drives Springer Nature

This book aims to provide insights on new trends in power systems operation and control and to present, in detail, analysis methods of the power system behavior (mainly its dynamics) as well as the mathematical models for the main components of

power plants and the control systems implemented in dispatch centers. Particularly, evaluation methods for rotor angle stability and voltage stability as well as control mechanism of the frequency and voltage are described. Illustrative examples and graphical representations help readers across many disciplines acquire ample knowledge on the respective subjects.

13th International Conference on Biomedical Engineering Institute of Electrical & Electronics Engineers(IEEE)

The Electric Power Engineering Handbook, Third Edition updates coverage of recent developments and rapid technological growth in crucial aspects of power systems, including protection, dynamics and stability, operation, and control. With contributions from worldwide field leaders—edited by L.L. Grigsby, one of the world's most respected, accomplished authorities in power engineering—this reference includes chapters on: Nonconventional Power Generation Conventional Power Generation Transmission Systems Distribution Systems Electric Power Utilization Power Quality Power System Analysis and Simulation Power System Transients Power System Planning (Reliability) Power Electronics Power System Protection Power System Dynamics and Stability Power System Operation and Control Content includes a simplified overview of advances in international standards, practices, and technologies, such as small-signal stability and power system oscillations, power system stability controls, and dynamic modeling of power systems. Each book in this popular series supplies a high level of detail and, more importantly, a tutorial style of writing and use of photographs and graphics to help the reader understand the material. This resource will help readers achieve safe, economical, high-quality power delivery in a dynamic and demanding environment. Volumes in the set: K12642 Electric Power Generation, Transmission, and Distribution, Third Edition (ISBN: 9781439856284) K12648 Power Systems, Third Edition (ISBN: 9781439856338) K13917 Power System Stability and Control, Third Edition (9781439883204) K12650 Electric Power Substations Engineering, Third Edition (9781439856383) K12643 Electric Power Transformer Engineering, Third Edition (9781439856291)

Electrical Engineering and Control Springer Nature

This book aims to examine innovation in the fields of computer engineering and networking. The text covers important developments in areas such as artificial intelligence, machine learning, information analysis, communication system, computer modeling, internet of things. This book presents papers from the 13th International Conference on Computer Engineering and Networks (CENet2023) held in Wuxi, China on November 3-5, 2023.