

Iet Journal

Hybrid Energy Systems: Strategy for Industrial Decarbonization demonstrates how hybrid energy and processes can decarbonize energy industry needs for power and heating and cooling. It describes the role of hybrid energy and processes in nine major industry sectors and discusses how hybrid energy can offer sustainable solutions in each. Introduces the basics and examples of hybrid energy systems Examines hybrid energy and processes in coal, oil and gas, nuclear, building, vehicle, manufacturing and industrial processes, computing and portable electronic, district

heating and cooling, and water sectors Shows that hybrid processes can improve efficiency and that hybrid energy can effectively insert renewable fuels in the energy industry Serves as a companion text to the author's book Hybrid Power: Generation, Storage, and Grids Written for advanced students, researchers, and industry professionals involved in energy-related processes and plants, this book offers latest research and practical strategies for application of the innovative field of hybrid energy.

Issues in Analysis, Measurement, Monitoring, Imaging, and Remote Sensing Technology: 2011 Edition is a ScholarlyEditions™ eBook that delivers timely,

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produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

The book will focus on the applications of machine learning for sustainable development. Machine learning (ML) is an emerging technique whose diffusion and adoption in various sectors (such as energy, agriculture, internet of things, infrastructure) will be of enormous

benefit. The state of the art of machine learning models is most useful for forecasting and prediction of various sectors for sustainable development.

This book will focus on the use of Blockchain 3.0 for sustainable development. This tool is invaluable for achieving transparency and trust, but possibilities to benefit society more broadly are emerging that will bring a bright future for sustainable development, too. The adoption of blockchain in agriculture, healthcare, infrastructure, education, environment, energy, communication will provide revolutionary changes in the digital era.

Issues in Electronics Research and Application: 2012

Edition

Issues in Systems Engineering: 2012 Edition

Privatisation and the Limits of Transformation

Issues in Energy Conversion, Transmission, and

Systems: 2012 Edition

Communication Technologies for Networked Smart
Cities

Business in Post-Communist Russia

Residential Microgrids and Rural Electrifications

contains an overview of microgrids' architecture, load

assessments, designing of microgrids for residential

systems, and rural electrifications to help readers

understand the fundamentals. Including many new

topics in the field of home automation and the application of IoT for microgrids monitoring and control, the book includes sections on the infrastructure necessary for charging Electric Vehicles in residential systems and rural electrifications and how to estimate the energy and cost of various combinations of energy resources. Many examples and practical case studies are included to enhance and reinforce learning objective goals. Those in engineering research and technical professions will be able to perform energy and cost analyses of various combinations of energy sources by using advanced, real simulation tools. Features methods for adopting and applying artificial

intelligent techniques in microgrids for improving reliability Addresses the role of battery energy storage systems, the reliable operation of microgrids, international standards such as IEC and IEEE standards, and safe handling techniques Covers IoT for the monitoring and control of microgrids and the adoption of recent technologies

The mobile market has experienced unprecedented growth over the last few decades. Consumer trends have shifted towards mobile internet services supported by 3G and 4G networks worldwide. Inherent to existing networks are problems such as lack of spectrum, high energy consumption, and inter-cell

interference. These limitations have led to the emergence of 5G technology. It is clear that any 5G system will integrate optical communications, which is already a mainstay of wide area networks. Using an optical core to route 5G data raises significant questions of how wireless and optical can coexist in synergy to provide smooth, end-to-end communication pathways. *Optical and Wireless Convergence for 5G Networks* explores new emerging technologies, concepts, and approaches for seamlessly integrating optical-wireless for 5G and beyond. Considering both fronthaul and backhaul perspectives, this timely book provides insights on managing an ecosystem of mixed

and multiple access network communications focused on optical-wireless convergence. Topics include Fiber–Wireless (FiWi), Hybrid Fiber-Wireless (HFW), Visible Light Communication (VLC), 5G optical sensing technologies, approaches to real-time IoT applications, Tactile Internet, Fog Computing (FC), Network Functions Virtualization (NFV), Software-Defined Networking (SDN), and many others. This book aims to provide an inclusive survey of 5G optical-wireless requirements, architecture developments, and technological solutions.

Unmanned marine vehicles (UMVs) is a collective term used to describe autonomous underwater vehicles,

remotely operated vehicles, semi-submersibles, and unmanned surface craft. Considerable interest has been shown in UUVs by the military, civilian and scientific communities due to their ability to undertake designated missions whilst either operating autonomously and/or on co-operation with other types of vehicle. Increasing importance is also being placed on the design and development of such vehicles as they are capable of providing cost effective solutions to a number of littoral, coastal and offshore problems. This book draws attention to the advanced technology which is evolving to meet the challenges being posed in this exciting and growing field of study.

It is a widely held idea that Russia has completed its revolution which brought down the Soviet economy, and that many companies after privatisation work as typical western companies. Another belief is that Russia has adopted a market economy but then reverted to authoritarianism. With these two ideas in mind, this book discusses the suggestion that the key element of post-Soviet economic and political reforms in the last two decades was the redistribution of assets from the state to oligarchs and the new elite. It looks at why most Russian companies could not achieve strong long-run corporate performance by analysing in detail a range of different Russian companies. The book is a

useful tool for understanding the future prospects for Russian business.

Non-Isolated DC-DC Converters for Renewable Energy Applications

Handbook of Systems Biology

Blockchain 3.0 for Sustainable Development

Issues in Computer Science and Theory: 2011 Edition

Optical and Wireless Convergence for 5G Networks

How Cold War Engineers and Artists Forged a New Creative Culture

There are myriad questions that emerge when one considers emotions and decision-making: What produces emotions? Why do we have

emotions? How do we have emotions? Why do emotional states feel like something? What is the relationship between emotion, reward value, and subjective feelings of pleasure? How is the value of 'good' represented in the brain? Will neuroeconomics replace classical microeconomics? How does the brain implement decision-making? Are gene-defined rewards and emotions in the interests of the genes? Does rational multistep planning enable us to go beyond selfish genes to plans in the interests of the individual? The Brain, Emotion, and Depression addresses these issues, providing a

unified approach to emotion, reward value, economic value, decision-making, and their brain mechanisms. The evolutionary, adaptive value of the processes involved in emotion, the neural networks involved in emotion and decision making, and the issue of conscious emotional feelings are all considered. The book will be valuable for those in the fields of neuroscience, neurology, psychology, psychiatry, biology, animal behaviour, economics, and philosophy from the advanced undergraduate level upwards, and for all interested in emotion and decision-making.

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This book addresses the true innovation in engineering design that may be promoted by blending together models and methodologies from different disciplines, and, in this book, the target was exactly to follow this approach to deliver a new disruptive architecture to deliver these next-generation mobile small cell technologies. According to this design philosophy,

the work within this book resides in the intersection of engineering paradigms that includes “cooperation”, “network coding”, and “smart energy-aware frontends”. These technologies will not only be considered as individual building blocks, but re-engineered according to an inter-design approach resulting in the enabler for energy efficient femtocell-like services on the move. The book aims to narrow the gap between the current networking technologies and the foreseen requirements that are targeted at the future development of the 5G mobile and wireless communications networks in

terms of the higher networking capacity, the ability to support more users, the lower cost per bit, the enhanced energy efficiency, and adaptability to new services and devices (for example, smart cities, and the Internet of things (IoT)).

Hybrid Energy Systems

Residential Microgrids and Rural Electrifications

Medical Applications of Artificial Intelligence

Wind and Solar Power Systems

Strategy for Industrial Decarbonization

Energy Harvesting in Wireless Sensor Networks
and Internet of Things

Semiconductor lasers are small, reliable, low cost, high-performance and user-friendly optical devices which make them highly suitable for a variety of biomedical applications. This edited book gathers experts in the field to cover the fundamentals and technology advances of semiconductor lasers and diode-based lasers with a focus on their applications in medical optics and biophotonics including edge-emitting semiconductor lasers and light emitting diodes, Q-switched and mode-locked lasers, quantum cascade lasers,

semiconductor disk lasers, near-infrared spectroscopy systems for biomedical applications, bio-medical Raman spectroscopy, nonlinear imaging and optical coherence tomography.

This book showcases state-of-the-art research and innovations in communications technologies for connected smart cities. The interfaces of various communication technologies are explored, alongside design-specific issues for the integration of different architectural components, and the interoperability of various solutions.

Our monogram series is available in A-Z, 1-9, various icons (in some series) and multiple interior formats (with most). Find variations by altering the Title and Series Title in a search. Product quality is higher than shown in imagery created by the vendor. 2.4x the length of our notebooks for about 1.5x their price!!! There is nothing like the feel of pen/pencil on paper for your thoughts, dreams, experiences and life events recorded in the moment. Use this blank book for a diary, journal, field notes, memoirs, travel logs, etc. Yes, it is designed

for any of these needs and more. 365+ pgs. with 60% gray lines for writing guides. Also includes: blank field title page to fill in 6-page blank table of contents for later reference entries blank headers to fill in by the page See other designs available from "N.D. Author Services" (NDAuthorServices.com) in its multiple series of 600, 365 or 150 page Mega-Journals, Journals, Notebooks, Sketchbooks, etc. Many available in Blank, Grid, Hex, Lined, Meeting, Planner, Sketch and other interior formats. Over 8000 individual

variations across pg. count + cover design + interior format as of 2017.

This book is an introduction to the concepts and developments of emerging electric machines, including advances, perspectives, and selected applications. It is a helpful tool for practicing engineers concerned with emerging electric machines and their challenges and potential uses. Chapters cover such topics as electric machines with axial magnetic flux, asynchronous machines with dual power supply, new designs for electrical machines, and more.

Issues in Electronic Circuits, Devices, and Materials: 2011 Edition

Low-Switching Frequency Modulation Schemes for Multi-level Inverters

The Brain, Emotion, and Depression

Design and Modeling of Low Power VLSI Systems

Internet of Energy Handbook

The Indian Journal of Agricultural Sciences

Enhanced, more reliable, and better understood than in the past, artificial intelligence (AI) systems can make providing healthcare more accurate, affordable, accessible, consistent, and efficient. However, AI

technologies have not been as well integrated into medicine as predicted. In order to succeed, medical and computational scientists must develop hybrid systems that can effectively and efficiently integrate the experience of medical care professionals with capabilities of AI systems. After providing a general overview of artificial intelligence concepts, tools, and techniques, *Medical Applications of Artificial Intelligence* reviews the research, focusing on state-of-the-art projects in the field. The book captures the breadth and depth of the medical applications of artificial intelligence, exploring new developments and persistent challenges. *Issues in Software Research, Design, and Application: 2011 Edition* is a ScholarlyEditions™ eBook that delivers

timely, authoritative, and comprehensive information about Software Research, Design, and Application. The editors have built Issues in Software Research, Design, and Application: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Software Research, Design, and Application in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Software Research, Design, and Application: 2011 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by

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Very Large Scale Integration (VLSI) Systems refer to the latest development in computer microchips which are

created by integrating hundreds of thousands of transistors into one chip. Emerging research in this area has the potential to uncover further applications for VLSI technologies in addition to system advancements.

Design and Modeling of Low Power VLSI Systems analyzes various traditional and modern low power techniques for integrated circuit design in addition to the limiting factors of existing techniques and methods for optimization. Through a research-based discussion of the technicalities involved in the VLSI hardware development process cycle, this book is a useful resource for researchers, engineers, and graduate-level students in computer science and engineering.

Recent Technical Developments in Energy-Efficient 5G

Mobile Cells

Deep Learning in Computer Vision

Issues in Applied Computing: 2011 Edition

Design, Analysis, and Operation

Select Proceedings of ETAEERE 2020

Bio-Inspired Quality of Service Aware Routing Protocols

This book provides an entry point into Systems Biology for researchers in genetics, molecular biology, cell biology, microbiology and biomedical science to understand the key concepts to expanding their work. Chapters organized around broader themes of Organelles and Organisms, Systems Properties of Biological

Processes, Cellular Networks, and Systems Biology and Disease discuss the development of concepts, the current applications, and the future prospects. Emphasis is placed on concepts and insights into the multi-disciplinary nature of the field as well as the importance of systems biology in human biological research.

Technology, being an extremely important aspect of scientific progress overall, and in the creation of new fields in particular, is discussed in 'boxes' within each chapter to relate to appropriate topics. 2013 Honorable Mention for Single Volume Reference in Science from the

Association of American Publishers' PROSE Awards Emphasizes the interdisciplinary nature of systems biology with contributions from leaders in a variety of disciplines Includes the latest research developments in human and animal models to assist with translational research Presents biological and computational aspects of the science side-by-side to facilitate collaboration between computational and biological researchers

The Internet of Energy (IoE), with the integration of advanced information and communication technologies (ICT), has led to a transformation of

traditional networks to smart systems. Internet of Energy Handbook provides updated knowledge in the field of energy management with an Internet of Things (IoT) perspective. Features Explains the technological developments for energy management leading to a reduction in energy consumption through topics like smart energy systems, smart sensors, communication, techniques, and utilization Includes dedicated sections covering varied aspects related to renewable sources of energy, power distribution, and generation Incorporates energy efficiency, optimization, and sensor

technologies Covers multidisciplinary aspects in computational intelligence and IoT Discusses building energy management aspects including temperature, humidity, the number of persons involved, and light intensity This handbook is aimed at graduate students, researchers, and professionals interested in power systems, IoT, smart grids, electrical engineering, and transmission.

The creative collaborations of engineers, artists, scientists, and curators over the past fifty years. Artwork as opposed to experiment? Engineer versus artist? We often see two different cultural

realms separated by impervious walls. But some fifty years ago, the borders between technology and art began to be breached. In this book, W. Patrick McCray shows how in this era, artists eagerly collaborated with engineers and scientists to explore new technologies and create visually and sonically compelling multimedia works. This art emerged from corporate laboratories, artists' studios, publishing houses, art galleries, and university campuses. Many of the biggest stars of the art world—Robert Rauschenberg, Yvonne Rainer, Andy Warhol, Carolee Schneemann, and John

Cage—participated, but the technologists who contributed essential expertise and aesthetic input often went unrecognized. Coming from diverse personal backgrounds, this roster of engineers and scientists includes Frank J. Malina, the American rocket pioneer-turned-kinetic artist who launched the art-science journal Leonardo, and Swedish-born engineer Billy Klüver, who established the group Experiments in Art and Technology (E.A.T). At schools ranging from MIT to Caltech, engineers engaged with such figures as artist Gyorgy Kepes and celebrity curator Maurice Tuchman. Today,

we are in the midst of a new surge of corporate and academic promotion of projects and programs combining art, technology, and science. Making Art Work reveals how artists and technologists have continually constructed new communities in which they exercise imagination, display creative expertise, and pursue commercial innovation.

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The Lightning Flash

Mobile Ad Hoc Networks

Advances, Perspectives and Applications

Issues in Software Research, Design, and

Application: 2011 Edition

Concepts and Insights

Advances in Unmanned Marine Vehicles

This book provides technological and socio-economic

coverage of renewable energy. It discusses wind power technologies, solar photovoltaic technologies, large-scale energy storage technologies, and ancillary power systems. In this new edition, the book addresses advancements that have been made in renewable energy: grid-connected power plants, power electronics converters, and multi-phase conversion systems. The text has been revised to include up-to-date material, statistics, and current technology trends. Three new chapters have been added to cover turbine generators, AC and DC wind systems, and recent advances solar power conversion. Discusses additional renewable energy sources, such as ocean, special turbines, etc. Covers system integration for solar and wind energy Presents emerging DC wind systems Includes coverage on turbine

generators Updated sections on solar power conversion It offers students, practicing engineers, and researchers a comprehensive look at wind and solar power technologies. It is designed as a reference and can serve as a textbook for senior undergraduates in a one-semester course on renewable power or energy systems.

Deep learning algorithms have brought a revolution to the computer vision community by introducing non-traditional and efficient solutions to several image-related problems that had long remained unsolved or partially addressed. This book presents a collection of eleven chapters where each individual chapter explains the deep learning principles of a specific topic, introduces reviews of up-to-date techniques, and presents research findings to the computer vision

community. The book covers a broad scope of topics in deep learning concepts and applications such as accelerating the convolutional neural network inference on field-programmable gate arrays, fire detection in surveillance applications, face recognition, action and activity recognition, semantic segmentation for autonomous driving, aerial imagery registration, robot vision, tumor detection, and skin lesion segmentation as well as skin melanoma classification. The content of this book has been organized such that each chapter can be read independently from the others. The book is a valuable companion for researchers, for postgraduate and possibly senior undergraduate students who are taking an advanced course in related topics, and for those who are interested in deep learning with applications in computer

vision, image processing, and pattern recognition.

This book comprises select proceedings of the international conference ETAEERE 2020, and focuses on contemporary issues in energy management and energy efficiency in the context of power systems. The contents cover modeling, simulation and optimization based studies on topics like medium voltage BTB system, cost optimization of a ring frame unit in textile industry, rectenna for RF energy harvesting, ecology and energy dimension in infrastructural designs, study of AGC in two area hydro thermal power system, energy-efficient and reliable depth-based routing protocol for underwater wireless sensor network, and power line communication. This book can be beneficial for students, researchers as well as industry professionals.

Photovoltaic (PV) energy generation is an excellent example of large-scale electric power generation through various parallel arrangements of small voltage-generating solar cells or modules. However, PV generation systems require power electronic converters system to satisfy the need for real-time applications or to balance the demand for power from electric. Therefore, a DC-DC power converter is a vital constituent in the intermediate conversion stage of PV power. This book presents a comprehensive review of various non-isolated DC-DC power converters. Non-isolated DC-DC converters for renewable energy system (RES) application presented in this book 1st edition through a detailed original investigation, obtained numerical/experimental results, and guided the scope to design new families of converters: DC-DC

multistage power converter topologies, Multistage "X-Y converter family", Nx IMBC (Nx Interleaved Multilevel Boost Converter), Cockcroft Walton (CW) Voltage Multiplier-Based Multistage/Multilevel Power Converter (CW-VM-MPC) converter topologies, and Z-source and quasi Z-source. Above solutions are discussed to show how they can achieve the maximum voltage conversion gain ratio by adapting the passive/active component within the circuits. For assessment, we have recommended novel power converters through their functionality and designs, tested and verified by numerical software. Further, the hardware prototype implementation is carried out through a flexible digital processor. Both numerical and experimental results always shown as expected close agreement with primary theoretical hypotheses. This book

offers guidelines and recommendation for future development with the DC-DC converters for RES applications based on cost-effective, and reliable solutions.

Monogram G Journal

Semiconductor Lasers and Diode-based Light Sources for Biophotonics

*Advances in Power Systems and Energy Management
Issues in Systems Engineering: 2011 Edition
Principles, Algorithms, and Advances*

The common use of the Internet and cloud services in transmission of large amounts of data over open networks and insecure channels,

exposes that private and secret data to serious situations. Ensuring the information transmission over the Internet is safe and secure has become crucial, consequently information security has become one of the most important issues of human communities because of increased data transmission over social networks. Digital Media Steganography: Principles, Algorithms, and Advances covers fundamental theories and algorithms for practical design, while providing a comprehensive overview of the most advanced

methodologies and modern techniques in the field of steganography. The topics covered present a collection of high-quality research works written in a simple manner by world-renowned leaders in the field dealing with specific research problems. It presents the state-of-the-art as well as the most recent trends in digital media steganography. Covers fundamental theories and algorithms for practical design which form the basis of modern digital media steganography Provides new theoretical breakthroughs and a number of

modern techniques in steganography Presents the latest advances in digital media steganography such as using deep learning and artificial neural network as well as Quantum Steganography

This unique book provides the reader with a thorough background in almost every aspect of lightning and its impact on electrical and electronic equipment. The contents range from basic discharge processes in air through transient electromagnetic field generation and interaction with overhead lines and underground

cables, to lightning protection and testing techniques. This book is of value to anyone designing, installing or commissioning equipment which needs to be secured against lightning strikes, as well as being a sound introduction to research students working in the field.

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***Making Art Work
How Cold War Engineers and Artists Forged a New Creative Culture
MIT Press
Machine Learning for Sustainable Development
Making Art Work
Deregulated Electricity Structures and Smart***

Grids

Emerging Electric Machines

Issues in Renewable Energy Technologies: 2012 Edition

Principles and Applications

Multi-level Inverters (MLIs) are widely used for conversion of DC to AC power. This book provides various low-switching frequency (LSF) modulation schemes (conventional and improved), which can be implemented on MLIs. The LSF modulation schemes are implemented to three different MLI topologies to demonstrate their working and aimed at their application to reader invented MLI topologies. Highlighting

the advantages of LSF over high-switching frequency (HSF) modulation schemes, the simulations are carried out using MATLAB® / Simulink along with hardware experiments. The practical application of MLIs to renewable energy sources and electric vehicles is also provided at the end of the book. Aimed at researchers, graduate students in Electric Power Engineering, Power Electronics, this book: Presents detailed overview of most commonly used multi-level inverter topologies. Covers advantages of low-switching over high-switching frequency scheme. Includes an exclusive section dedicated for an improved low-switching modulation scheme. Dedicated chapter on application of renewable energy sources to multi-level invertors and electric vehicles. Explains all the

low-switching frequency modulation schemes.

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In recent years, a lot of work has been done in an effort to incorporate Swarm Intelligence (SI) techniques in building an adaptive routing protocol for Mobile Ad Hoc Networks (MANETs). Since centralized approach for routing in MANETs generally lacks in scalability and fault-tolerance, SI techniques provide a natural solution through a distributed approach for the adaptive routing for MANETs. In SI techniques, the captivating features of insects or mammals are

correlated with the real world problems to find solutions. Recently, several applications of bio-inspired and nature-inspired algorithms in telecommunications and computer networks have achieved remarkable success. The main aims/objectives of this book, "Mobile Ad Hoc Networks: Bio-Inspired Quality of Service Aware Routing Protocols", are twofold; firstly it clearly distinguishes between principles of traditional routing protocols and SI based routing protocols, while explaining in detail the analogy between MANETs and SI principles. Secondly, it presents the readers with important Quality of Service (QoS) parameters and explains how SI based routing protocols achieves QoS demands of the applications. This book also gives quantitative and qualitative

analysis of some of the SI based routing protocols for MANETs.

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Issues in Analysis, Measurement, Monitoring, Imaging, and Remote Sensing Technology: 2011 Edition

Farmers' Journal

Digital Media Steganography

The energy efficiency paradigm is a major bottleneck for the development of wireless sensor networks (WSNs) and Internet of Things (IoT) architectures and

technologies. This edited book presents comprehensive coverage of energy harvesting sources and techniques that can be used for WSN and IoT systems.

The goals of restructuring of the power sector are competition and operating efficiency in the power industry that result in reliable, economical, and quality power supply to consumers. This comprehensive reference text provides an in-depth insight into these topics. Deregulated Electricity Structures and Smart Grids discusses issues including renewable energy integration, reliability assessment, stability analysis, reactive power compensation in smart grids, and harmonic mitigation, in the context of the deregulated

smart electricity market. It covers important concepts including AC and DC grid modelling, harmonics mitigation and reactive power compensation in the deregulated smart grid, and extraction of energy from renewable energy sources under the deregulated electricity market with the smart grid. The text will be useful for graduate students and professionals in the fields of electrical engineering, electronics and communication engineering, renewable energy, and clean technologies.

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