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*Journal of the Institution of Engineers (India).
Electrical Engineering Division - 1988*

Issues in Engineering Research and Application: 2011 Edition - 2012-01-09

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Indian Journal of Power and River Valley Development - 1981

Handbook of Research on Smart Technology Models for Business and Industry - Thomas, J. Joshua 2020-06-19

Advances in machine learning techniques and ever-increasing computing power has helped create a new generation of hardware and

software technologies with practical applications for nearly every industry. As the progress has, in turn, excited the interest of venture investors, technology firms, and a growing number of clients, implementing intelligent automation in both physical and information systems has become a must in business. Handbook of Research on Smart Technology Models for Business and Industry is an essential reference source that discusses relevant abstract frameworks and the latest experimental research findings in theory, mathematical models, software applications, and prototypes in the area of smart technologies. Featuring research on topics such as digital security, renewable energy, and intelligence management, this book is ideally designed for machine learning specialists, industrial experts, data scientists, researchers, academicians, students, and business professionals seeking coverage on current smart technology models. Hydrogen Fuel Cell Technology for Stationary Applications - Badea, Gheorghe 2021-04-30 Unconventional energy sources have gained and will continue to gain an increasing share of energy systems around the world. Today, hydrogen is recognized as a non-polluting energy carrier because it does not contribute to global warming if it is produced from renewable sources. Hydrogen is already part of today's chemical industry, but as an energy source, its rare advantages can only be obtained with the help of technologies. Currently, the fuel cell is considered the cleanest sustainable energy. With the development of fuel cells, hydrogen-based energy generation becomes a reality. Hydrogen Fuel Cell Technology for Stationary Applications is an essential publication that focuses on the

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advantages of hydrogen as a primary energy center and addresses its use in the sustainable future of stationary applications. While highlighting a broad range of topics including cost expectations, production methods, and social impact, this publication explores all aspects of the implementation and dissemination of fuel cell technology in the hope of establishing a sustainable marketplace for it. This book is ideally designed for fuel cell manufacturers, architects, electrical engineers, civil engineers, environmental engineers, advocates, manufacturers, mechanics, researchers, academicians, and students.

Practical Engineer - 1902

AI and IOT in Renewable Energy - Rabindra Nath Shaw 2021-05-12

This book presents the latest research on applications of artificial intelligence and the Internet of Things in renewable energy systems. Advanced renewable energy systems must necessarily involve the latest technology like artificial intelligence and Internet of Things to develop low cost, smart and efficient solutions. Intelligence allows the system to optimize the power, thereby making it a power efficient system; whereas, Internet of Things makes the system independent of wire and flexibility in operation. As a result, intelligent and IOT paradigms are finding increasing applications in the study of renewable energy systems. This book presents advanced applications of artificial intelligence and the internet of things in renewable energy systems development. It covers such topics as solar energy systems, electric vehicles etc. In all these areas applications of artificial intelligence methods such as artificial neural networks, genetic algorithms, fuzzy logic and a combination of the above, called hybrid systems, are included. The book is intended for a wide audience ranging from the undergraduate level up to the research academic and industrial communities engaged in the study and performance prediction of renewable energy systems.

Advanced Electronic Circuits - Mingbo Niu 2018-06-13

This research book volume offers an important learning opportunity with insights into a variety of emerging electronic circuit aspects, such as

new materials, energy harvesting architectures, and compressive sensing technique. Advanced circuit technologies are extremely powerful and developed rapidly. They change industry. They change lives. And we know they can change the world. The exhibition on these new and exciting topics will benefit readers in related fields.

Canadian Electrical Engineering Journal - 1980

Technological Innovations in Knowledge Management and Decision Support - Dey, Nilanjan 2018-07-27

Organizations are showing a remarkable interest in realizing knowledge management technologies and processes to adopt knowledge management as part of their overall strategy. However, even with the current advancement in technology, few organizations are entirely capable of developing critical organizational knowledge to achieve improved performance. Technological Innovations in Knowledge Management and Decision Support is a vital research publication that examines different knowledge management areas for organizational competitiveness, survival, and effectiveness. It also provides cutting-edge research techniques in related optimization methods and other automated techniques in real-world processes. Featuring a broad range of topics such as enterprise resource planning, neural networks, and image segmentation, this book is a critical resource for managers, IT specialists, healthcare and social sciences professionals, engineers, academicians, and researchers seeking research on effective knowledge management systems.

Journal of Rehabilitation Research and Development - 1994

Bioreactors for Microbial Biomass and Energy Conversion - Qiang Liao 2018-04-20

This book discusses recent trends and developments in the microbial conversion process, which serves as an important route for biofuel production, with particular attention to bioreactors. It combines microbial conversion with multiphase flow and mass transfer, providing an alternative perspective for the understanding of microbial biomass and energy production process as well as enhancement strategy. This book is relevant to students and

researchers who work in the fields of renewable energy, engineering and biotechnology. Policymakers, economists and industry engineers also benefit from this book, as it can be used as a resource for the implementation of renewable energy technologies.

Innovations in Electrical and Electronic Engineering - Saad Mekhilef 2021-05-24

This book presents selected papers from the 2021 International Conference on Electrical and Electronics Engineering (ICEEE 2020), held on January 2-3, 2021. The book focuses on the current developments in various fields of electrical and electronics engineering, such as power generation, transmission and distribution; renewable energy sources and technologies; power electronics and applications; robotics; artificial intelligence and IoT; control, automation and instrumentation; electronics devices, circuits and systems; wireless and optical communication; RF and microwaves; VLSI; and signal processing. The book is a valuable resource for academics and industry professionals alike.

Renewable Energy Utilization Using Underground Energy Systems - Paweł Ocioń 2021-06-25

This book discusses heat transfer in underground energy systems. It covers a wide range of important and practical topics including the modeling and optimization of underground power cable systems, modeling of thermal energy storage systems utilizing waste heat from PV panels cooling. Modeling of PV panels with cooling. While the performance of energy systems which utilize heat transfer in the ground is not yet fully understood, this book attempts to make sense of them. It provides mathematical modeling fundamentals, as well as experimental investigation for underground energy systems. The book shows detailed examples, with solution procedures. The solutions are based on the Finite Element Method and the Finite Volume Method. The book allows the reader to perform a detailed design of various underground energy systems, as well as enables them to study the economic aspects and energy efficiency of underground energy systems. Therefore, this text is of interest to researchers, students, and lecturers alike.

Catalogue ... and Announcements -

University of Minnesota 1898

Journal of Rehabilitation Research & Development - 1994

Data Mining and Analysis in the Engineering Field - Bhatnagar, Vishal 2014-05-31

Particularly in the fields of software engineering, virtual reality, and computer science, data mining techniques play a critical role in the success of a variety of projects and endeavors. Understanding the available tools and emerging trends in this field is an important consideration for any organization. Data Mining and Analysis in the Engineering Field explores current research in data mining, including the important trends and patterns and their impact in fields such as software engineering. With a focus on modern techniques as well as past experiences, this vital reference work will be of greatest use to engineers, researchers, and practitioners in scientific-, engineering-, and business-related fields.

Sustainable Engineering - Catherine Mulligan 2019-01-30

Sustainable Engineering: Principles and Implementation provides a comprehensive overview of the interdisciplinary field of sustainability as it applies to engineering and methods for implementation of sustainable practices. Due to increasing constraints on resources and on the environment and effects of climate change, engineers are being faced with new challenges. While it is generally believed that the concepts of sustainable design must be adhered to so that future generations may be protected, the execution and practice of these concepts are very difficult. It is therefore the focus of this book to give both a conceptual understanding as well as practical skills to apply sustainable engineering principles to engineering design. This book introduces relevant theory, principles, and ethical expectations for engineers, presents concepts related to industrial ecology, green engineering, and eco-design, and details frameworks that indicate the challenges and constraints of applying sustainable development principles. It describes the tools, protocols, and guidelines that are currently available through case studies and examples from around the world. The book

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is designed to be used by undergraduate and graduate students in any engineering program (with particular emphasis on civil, environmental and chemical engineering) and other programs in which sustainability is taught, in addition to practicing scientists and engineers and all others concerned with the sustainability of products, projects and processes. Specific Features: Discusses sources of contaminants and their impact on the environment Addresses sustainable assessment techniques, policies, protocols and guidelines Describes new tools and technologies for achieving sustainable engineering Includes social and economic sustainability dimensions Offers case studies demonstrating implementation of sustainable engineering practices

Combined Cycle Systems for Near-Zero Emission Power Generation - Ashok D Rao
2012-04-12

Combined cycle power plants are one of the most promising ways of improving fossil-fuel and biomass energy production. The combination of a gas and steam turbine working in tandem to produce power makes this type of plant highly efficient and allows for CO₂ capture and sequestration before combustion. This book provides a comprehensive review of the design, engineering and operational issues of a range of advanced combined cycle plants. After introductory chapters on basic combined cycle power plant and advanced gas turbine design, the book reviews the main types of combined cycle system. Chapters discuss the technology, efficiency and emissions performance of natural gas-fired combined cycle (NGCC) and integrated gasification combined cycle (IGCC) as well as novel humid air cycle, oxy-combustion turbine cycle systems. The book also reviews pressurised fluidized bed combustion (PFBC), externally fired combined cycle (EFCC), hybrid fuel cell turbine (FC/GT), combined cycle and integrated solar combined cycle (ISCC) systems. The final chapter reviews techno-economic analysis of combined cycle systems. With its distinguished editor and international team of contributors, Combined cycle systems for near-zero emission power generation is a standard reference for both industry practitioners and academic researchers seeking to improve the efficiency and environmental impact of power

plants. Provides a comprehensive review of the design, engineering and operational issues of a range of advanced combined cycle plants Introduces basic combined cycle power plant and advanced gas turbine design and reviews the main types of combined cycle systems Discusses the technology, efficiency and emissions performance of natural gas-fired combined cycle (NGCC) systems and integrated gasification combined cycle (IGCC) systems, as well as novel humid air cycle systems and oxy-combustion turbine cycle systems

Fundamental and Advanced Topics in Wind Power - Rupp Carriveau 2011-07-05

As the fastest growing source of energy in the world, wind has a very important role to play in the global energy mix. This text covers a spectrum of leading edge topics critical to the rapidly evolving wind power industry. The reader is introduced to the fundamentals of wind energy aerodynamics; then essential structural, mechanical, and electrical subjects are discussed. The book is composed of three sections that include the Aerodynamics and Environmental Loading of Wind Turbines, Structural and Electromechanical Elements of Wind Power Conversion, and Wind Turbine Control and System Integration. In addition to the fundamental rudiments illustrated, the reader will be exposed to specialized applied and advanced topics including magnetic suspension bearing systems, structural health monitoring, and the optimized integration of wind power into micro and smart grids.

Advances and Technologies in High Voltage Power Systems Operation, Control, Protection and Security - Hassan Haes Alhelou 2021-08-30

The electrical demands in several countries around the world are increasing due to the huge energy requirements of prosperous economies and the human activities of modern life. In order to economically transfer electrical powers from the generation side to the demand side, these powers need to be transferred at high-voltage levels through suitable transmission systems and power substations. To this end, high-voltage transmission systems and power substations are in demand. Actually, they are at the heart of interconnected power systems, in which any faults might lead to unsuitable consequences, abnormal operation situations, security issues,

and even power cuts and blackouts. In order to cope with the ever-increasing operation and control complexity and security in interconnected high-voltage power systems, new architectures, concepts, algorithms, and procedures are essential. This book aims to encourage researchers to address the technical issues and research gaps in high-voltage transmission systems and power substations in modern energy systems.

Advances in Renewable Energies and Power Quality - Manuel Pérez-Donsión 2020-02-13

This volume brings together contributions dealing with renewable energies and power quality, presented over five years of the International Conference on Renewable Energy and Power Quality (ICREPQ). It contains a selection of the best papers and original contributions presenting state-of-the-art research in the field of renewable energy sources. Including some of the leading authorities in their areas of expertise, the contributors to the volume are drawn from across the globe, with about 300 authors from 60 different countries.

Journals of the Century - Tony Stankus 2019-12-20

This book, first published in 2002, gathers some of America's top subject expert librarians to determine the most influential journals in their respective fields. 32 contributing authors reviewed journals from over twenty countries that have successfully shaped the evolution of their individual specialties worldwide. Their choices reflect the history of each discipline or profession, taking into account rivalries between universities, professional societies, for-profit and not-for-profit publishers, and even nation-states and international ideologies, in each journal's quest for reputational dominance. Each journal was judged using criteria such as longevity of publication, foresight in carving out its niche, ability to attract & sustain professional or academic affiliations, opinion leadership or agenda-setting power, and ongoing criticality to the study or practice of their field. The book presents wholly independent reviewers; none are in the employ of any publisher, but each is fully credentialed and well published, and many are award-winners. The authors guide college and professional school librarians on limited

budgets via an exposition of their analytical and critical winnowing process in determining the classic resources for their faculty, students, and working professional clientele.

Mobile Communication and Power Engineering - Vinu V Das 2013-01-17

This book comprises the refereed proceedings of the International Conference, AIM/CCPE 2012, held in Bangalore, India, in April 2012. The papers presented were carefully reviewed and selected from numerous submissions and focus on the various aspects of research and development activities in computer science, information technology, computational engineering, mobile communication, control and instrumentation, communication system, power electronics and power engineering.

Journal of Electrical and Electronics Engineering, Australia - 1985

INTRODUCTION TO INTERNET OF THINGS: A THEORETICAL APPROACH - Prof. Dr. S.

Raviraja, Ph.D, PDRF 2022-05-02

INTRODUCTION TO INTERNET OF THINGS: A THEORETICAL APPROACH written by Prof. Dr. S. Raviraja, Dr. A. Ganga Dinesh Kumar, Dr. Sree Kumar Narayanan, Dr. Syed Azahad, Journal of the Institution of Engineers (India). - Institution of Engineers (India). Electrical Engineering Division 1977

International Conference on Advances in Power Generation from Renewable Energy Sources (APGRES-2020) - Editor in Chief Dr. D. Dhalin Editor Dr. Veeresh Fuskele Dr. Shiv Lal Dr. B. L. Gupta 2020-03-04

International Conference on Advances in Power Generation from Renewable Energy Sources (APGRES-2020)

Solar Energy - Gerard M Crawley 2016-04-14
Concerns about energy resources and the environmental impact of energy use will continue to be important globally. World Scientific's unique series of books on Current Energy Issues is intended, in part, as an expansion and update of the material contained in the World Scientific Handbook of Energy. Each volume will focus on related energy resources or issues and will contain a broader range of topics with more explanatory text. This Solar Energy volume covers a variety of

approaches to the use of solar energy. These include large scale photovoltaic production of electricity as well as more local applications in the home and businesses. Similarly, there is an extensive discussion of large scale solar thermal electricity production and smaller scale uses such as solar water heating, home heating and cooling plus crop drying. There is also discussion of more forward-looking technologies including the production of fuels using artificial photosynthesis and the production of biomass.

Contents: Introduction to Solar Energy (R Corkish, W Lipiński and Robert Patterson) Fundamentals of Photovoltaic Cells and Systems (Ignacio Rey-Stolle) Large-Scale Solar Thermal Plants (CSP) (Manfred Becker, Robert Pitz-Paal and Wes Stein) Large Scale Photovoltaic Power Plants (G Almonacid Puche, P G Vidal and E Muñoz-Cerón) Biomass (Anthony Turhollow) Artificial Photosynthesis (Nathan Skillen and Peter K J Robertson) Small Scale PV Applications in Home and Business (Estefanía Caamaño-Martín, Miguel Ángel Egido and Jorge Solórzano) Low Temperature Solar Thermal Applications (Brian Norton, Hans Martin Henning and Daniel Mugnier) Solar Thermochemical Processes (Roman Bader and Wojciech Lipiński) Readership: Researchers, academics, professionals and graduate students in energy studies/research and environmental/energy economics.

Smart Energy Management for Smart Grids - Khmaies Ouahada 2020-03-16

This book is a contribution from the authors, to share solutions for a better and sustainable power grid. Renewable energy, smart grid security and smart energy management are the main topics discussed in this book.

Annual Register - 1898

Innovations in Electrical and Electronic Engineering - Margarita N. Favorskaya 2020-07-25

The book is a compilation of selected papers from 2020 International Conference on Electrical and Electronics Engineering (ICEEE 2020) held in National Power Training Institute HQ (Govt. of India) on February 21 - 22, 2020. The work focuses on the current development in the fields of electrical and electronics engineering like power generation, transmission

and distribution, renewable energy sources and technology, power electronics and applications, robotics, artificial intelligence and IoT, control, and automation and instrumentation, electronics devices, circuits and systems, wireless and optical communication, RF and microwaves, VLSI, and signal processing. The book is beneficial for readers from both academia and industry.

Large-Scale Solar Thermal Power - Werner Vogel 2010-03-30

This important contribution to the issue of renewable energy describes the technical and economical requirements of mass-produced solar thermal power plants, from the different types of power plants to the development needs and a massive development program. The authors - renowned and experienced experts in the field - show that solar thermal power plants, because of their simple technology, are easy to build with high production rates and therefore can play a substantial role in the rapid substitution of fossil fuels. On the basis of solar thermal power (using long distance transmission) and coal from substituted coal plants, a future energy system is described supplying gas and liquid fuels. This is the first discussion of a complete concept, of a crash-strategy, for the partial replacement of oil and natural gas.

Advances in Smart Grid Technology - Pierluigi Siano 2020-09-22

This book comprises the select proceedings of the International Conference on Power Engineering Computing and Control (PECCON) 2019. This volume focuses on the different renewable energy sources which are integrated in a smart grid and their operation both in the grid connected mode and islanded mode. The contents highlight the role of power converters in the smart grid environment, battery management, electric vehicular technology and electric charging station as a load for the power network. This book can be useful for beginners, researchers as well as professionals interested in the area of smart grid technology.

Environment, Energy and Applied Technology - Wen-Pei Sung 2015-01-29

This proceedings volume brings together selected peer-reviewed papers presented at the 2014 International Conference on Frontier of Energy and Environment Engineering. Topics

covered include energy efficiency and energy management, energy exploration and exploitation, power generation technologies, water pollution and protection, air pollution and **Design and Modeling of Low Power VLSI Systems** - Sharma, Manoj 2016-06-06

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.

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Selected Papers from SDEWES 2017: The 12th Conference on Sustainable Development of

Energy, Water and Environment Systems - Francesco Calise 2019-02-04

This book is a printed edition of the Special Issue "Selected Papers from SDEWES 2017: The 12th Conference on Sustainable Development of Energy, Water and Environment Systems" that was published in Energies

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Intelligent Computing and Applications - B. Narendra Kumar Rao 2022-12-15

This book presents novel work of academicians, researchers, industry professionals, practitioners, and budding engineers to disseminate the most recent innovations, trends, and concerns along with the present-day challenges and the solving approaches for implementation in the domains of data science, intelligent computing, and computer networks and security. It is a collection of selected high-quality research papers from the International Conference on Data Science, Intelligent Computing and Cyber Security (ICDIC 2020) organized by Sree Vidyanikethan Engineering College, Tirupati, India, during 27–29 February 2020. It discusses the latest challenges and solutions in the field of data innovation, data management, data analysis, data security, and intelligent methods and applications.