

# Alternative Energy Sources



# Recent Advances In Alternate Energy Sources

**Zacharoula Smyrniou**



## **Recent Advances In Alternate Energy Sources:**

**Recent Advances in Renewable Energy Technologies** Mejdi Jeguirim, 2021-08-31 Recent Advances in Renewable Energy Technologies is a comprehensive reference covering critical research laboratory and industry developments on renewable energy technological production conversion storage and management including solar energy systems thermal and photovoltaic wind energy hydropower geothermal energy bioenergy and hydrogen production and large scale development of renewable energy technologies and their impact on the global economy and power capacity Technological advancements include resources assessment and deployment materials performance improvement system optimization and sizing instrumentation and control modeling and simulation regulations and policies Each modular chapter examines recent advances in specific renewable energy systems providing theoretical and applied aspects of system optimization control and management and supports them with global case studies demonstrating practical applications and economical and environmental aspects through life cycle analysis The book is of interest to engineering graduates researchers professors and industry professionals involved in the renewable energy sector and advanced engineering courses dealing with renewable energy sources thermal and electrical energy production and sustainability Focuses on the progress and research trends in solar wind biomass and hydropower and geothermal energy production and conversion Includes advanced techniques for the distribution management optimization and storage of heat and energy using case studies

**Recent Advances in Renewable Energy Automation and Energy Forecasting** Sarat Kumar Sahoo, Franco Fernando Yanine, Vikram Kulkarni, Akhtar Kalam, 2023-12-08 The advancement of sustainable energy is becoming an important concern for many countries The traditional electrical grid supports only one way interaction of power being delivered to the consumers The emergence of improved sensors actuators and automation technologies has consequently improved the control monitoring and communication techniques within the energy sector including the Smart Grid system With the support of the aforementioned modern technologies the information flows in two ways between the consumer and supplier This data communication helps the supplier in overcoming challenges like integration of renewable technologies management of energy demand load automation and control Renewable energy RE is intermittent in nature and therefore difficult to predict The accurate RE forecasting is very essential to improve the power system operations The forecasting models are based on complex function combinations that include seasonality fluctuation and dynamic nonlinearity The advanced intelligent computing algorithms for forecasting should consider the proper parameter determinations for achieving optimization For this we need new generation research areas like Machine learning ML and Artificial Intelligence AI to enable the efficient integration of distributed and renewable generation at large scale and at all voltage levels The modern research in the above areas will improve the efficiency reliability and sustainability in the Smart grid

**Recent Advances in Renewable Energy Systems** Mohan Kolhe, Aziz Muhammad, Abdel El Kharbachi, Tri Yogi Yuwono, 2022-07-26 This book presents the select

proceedings of 5th International Conference on Mechanical Engineering ICOME 2021 It discusses the recent challenges and trends in renewable energy in Asia Various topics covered include electrical energy new and renewable energy energy engineering and management fuels and combustion turbomachinery and HVAC The book will be a valuable reference for students researchers and professionals interested in sustainable energy and allied fields      **Recent Advances in**

**Operations Management Applications** Anish Sachdeva, Pradeep Kumar, O. P. Yadav, Mohit Tyagi, 2022-02-28 This book presents the select proceedings of the International Conference on Industrial and Manufacturing Systems CIMS 2020 It presents the current scenarios and future advancements in the domain of industrial engineering under context of optimum value Various topics covered include optimisation and its applicability in the various areas of industrial engineering like selection of designing parameters and decisions related to conditions of optimum process operation parameters facilities planning and management transportation and supply chain management quality engineering reliability and maintenance system optimization product design and development human factors and ergonomics project management service system and service management waste management sustainable manufacturing and operations systems design lean manufacturing and performance measurement This book will be useful for the students researchers and professionals working in the area of industrial and production engineering      **Recent Advances in Environmental Science from the Euro-Mediterranean**

**and Surrounding Regions (4th Edition)** Mohamed Ksibi, Arturo Sousa, Olfa Hentati, Haroun Chenchouni, José Lopes Velho, Abdelazim Negm, Jesús Rodrigo-Comino, Riheb Hadji, Sudip Chakraborty, Achraf Ghorbal, 2024-07-17 This edited book includes more than four hundred short papers that were presented during the fourth edition of EMCEI which was held in Sousse Tunisia in November 2022 By presenting a wide range of environmental topics and new findings relevant to a variety of problems in the Mediterranean region and its surroundings the book addresses emerging environmental issues along with new challenges by focusing on innovative approaches that contribute to achieving a sustainable environment in these regions The book appeals to anyone working in the subject area and especially students interested in learning more about new developments in environmental research initiatives in light of the worsening environmental degradation of the Mediterranean and surrounding areas making environmental and resource protection an increasingly important issue that impedes sustainable development and social well being The book addresses emerging environmental issues along with new challenges by focusing on innovative approaches that contribute to achieving a sustainable environment in and around the Mediterranean Sea and by highlighting to decision makers from relevant sectors the environmental considerations that should be integrated into their own activities      **Recent Advances in Energy Technologies** N. Lakshmi

Narasimhan, Mahmoud Bourouis, Vasudevan Raghavan, 2022-09-29 This book presents the select proceedings of the first International Conference on Energy and Materials Technologies ICEMT 2021 organized by the Department of Mechanical Engineering Sri Sivasubramaniya Nadar College of Engineering Kalavakkam India It covers the recent technologies in two

broad thematic areas energy and materials Various topics covered in this book include hybrid energy advanced energy systems energy management energy policy geothermal nuclear energy bio energy waste to energy power plants and automotives The book will be useful for students researchers and professionals in the area of mechanical engineering especially various domains of energy **Recent Advances in Mechanical Engineering, Volume 2** Gujjala

Raghavendra,B. B. V. L. Deepak,Manoj Gupta,2024-06-17 This book presents select proceedings of International Conference on Mechanical Engineering Researches and Evolutionary Challenges ICMech REC 23 It covers the latest research in the areas of mechanical engineering and materials applications Various topics covered in this book are materials composite nano advanced design methodologies industry 4 0 smart manufacturing thermodynamics mechatronics robotics soft computing and automation The contents of this book are useful to the researchers and professionals working in the different areas of mechanical engineering **Recent advances in Power Systems** Om Hari Gupta,S. N. Singh,Om P. Malik,2023-01-01 This

book presents select proceedings of the 3rd Electric Power and Renewable Energy Conference 2022 EPREC 2022 This book provides rigorous discussions case studies and recent developments in the emerging areas of the power systems especially renewable energy conversion systems distributed generations microgrids smart grids HVDC FACTS power system protection etc The readers would be benefited in terms of enhancing their knowledge and skills in the domain areas The book will be a valuable reference for beginners researchers and professionals interested in developments in the power system **Recent**

**Advances in Mechanical Engineering** Anil Kumar,Amit Pal,Surendra Singh Kachhwaha,Prashant Kumar Jain,2021-05-25 This book presents the select proceedings of the second International Conference on Recent Advances in Mechanical Engineering RAME 2020 The topics covered include aerodynamics and fluid mechanics automation automotive engineering composites ceramics and polymers processing computational mechanics failure and fracture mechanics friction tribology and surface engineering heating and ventilation air conditioning system industrial engineering IC engines turbomachinery and alternative fuels machinability and formability of materials mechanisms and machines metrology and computer aided inspection micro and nano mechanics modelling simulation and optimization product design and development rapid manufacturing technologies and prototyping solid mechanics and structural mechanics thermodynamics and heat transfer traditional and non traditional machining processes vibration and acoustics The book also discusses various energy efficient renewable and non renewable resources and technologies strategies and technologies for sustainable development and energy environmental interaction The book is a valuable reference for beginners researchers and professionals interested in sustainable construction and allied fields *ICT for Smart Grid - Recent Advances, New Perspectives, and Applications*

Abdelfatteh Haidine,2024-07-03 Information and Communication Technology ICT plays a pivotal role in enabling and managing smart grids which are modernized electrical grids that leverage digital technologies for enhanced efficiency reliability and sustainability ICT serves as the backbone of smart grids enabling efficient reliable and sustainable electricity

delivery while supporting the integration of renewable energy sources and promoting active consumer participation in grid operations The current book treats different aspects of ICT in smart grids The use of renewable energy sources is the core element of a sustainable energy infrastructure Therefore different chapters focus on microgrids Furthermore the book presents use cases for the use of microgrids in special environments such as educational buildings rural areas and the housing industries The Internet of Things IoT represents the paradigm to model any intelligent or smart system In such IoT system functionalities are organized in overlaid layers therefore it is called a layered model with a hierarchical structure The bottom layer covers the nationwide dispatched energy infrastructure The upper layer can be represented through either the service layer applications or business layers The book describes and analyzes technologies and solutions for the data layer as well as the communications networking level

### **Recent Advances in Material, Manufacturing, and Machine Learning**

Rajiv Gupta,Devendra Deshmukh,Awanikumar P. Patil,Naveen Kumar Shrivastava,Jayant Giri,R.B. Chadge,2023-05-26 The role of manufacturing in a country s economy and societal development has long been established through their wealth generating capabilities To enhance and widen our knowledge of materials and to increase innovation and responsiveness to ever increasing international needs more in depth studies of functionally graded materials tailor made materials recent advancements in manufacturing processes and new design philosophies are needed at present The objective of this volume is to bring together experts from academic institutions industries and research organizations and professional engineers for sharing of knowledge expertise and experience in the emerging trends related to design advanced materials processing and characterization and advanced manufacturing processes

*Recent Advances in Power Electronics and Drives* Jitendra Kumar,Premalata Jena,2020-12-03 This book presents select proceedings of the Electric Power and Renewable Energy Conference 2020 EPREC 2020 It provides rigorous discussions case studies and recent developments in the emerging areas of power electronics especially power inverter and converter electrical drives regulated power supplies operation of FACTS HVDC etc The readers would be benefited in enhancing their knowledge and skills in these domain areas The book will be a valuable reference for beginners researchers and professionals interested in advancements in power electronics and drives

Recent Advances in Fluid Dynamics Jyotirmay Banerjee,Rupesh D. Shah,Ramesh K. Agarwal,Sushanta Mitra,2022-09-24 This book presents select proceedings of the International Conference on Advances in Fluid Flow and Thermal Sciences ICAFFTS 2021 and summarizes the modern research practices in fluid dynamics and fluid power The content of the book involves advanced topics on turbulence droplet deposition oscillating flows wave breaking spray structure and its atomization and flow patterns in mini and micro channels Technological concerns relevant to erosion of steam turbine blade due to droplets influence of baffle cut and baffle pitch on flow regime bubble formation and propagation in pool boiling design optimization of flow regulating valves are included in the book In addition recent trends in small scale hydropower plant and flow stability issues in nanofluids solar water heating systems and closed loop pulsating heat pipes are discussed Special

topics on airflow pattern in railway coach and vortex tube are also included This book will be a reliable reference for academicians researchers and professionals working in the areas of fluid dynamics and fluid power Clean Energy for Sustainable Development Kalam Abul Azad,Subhash Sharma,2016-11-12 Clean Energy for Sustainable Development Comparisons and Contrasts of New Approaches presents information on the fundamental challenge that the energy sector faces with regard to meeting the ever growing demand for sustainable efficient and cleaner energy The book compares recent developments in the field of energy technology clean and low emission energy and energy efficiency and environmental sustainability for industry and academia Rasul Azad and Sharma along with their team of expert contributors provide high end research findings on relevant industry themes including clean and sustainable energy sources and technologies renewable energy technologies and their applications biomass and biofuels for sustainable environment energy system and efficiency improvement solar thermal applications and the environmental impacts of sustainable energy systems This book uses global institutes and case studies to explore and analyze technological advancements alongside practical applications This approach helps readers to develop and affirm a better understanding of the relevant concepts and solutions necessary to achieve clean energy and sustainable development in both medium and large scale industries Compares in depth research on a wide range of clean technologies from global institutes in Australia Europe and India Evaluates the recent developments in clean technologies against the efficiency of tried and tested applications Considers case studies on the advancements of sustainable energy into industry from around the world Recent Advances in Bioconversion of Lignocellulose to Biofuels and Value Added Chemicals within the Biorefinery Concept Edivaldo Ximenes Ferreira Filho,Leonora Rios de Souza Moreira,Eduardo de Aquino Ximenes,Cristiane Sanchez Farinas,2020-05-05 Recent Advances in Bioconversion of Lignocellulose to Biofuels and Value Added Chemicals within the Biorefinery Concept covers the latest developments on biorefineries along with their potential use for the transformation of residues into a broad range of more valuable products Within this context the book discusses the enzymatic conversion process of lignocellulosic biomass to generate fuels and other products in a unified approach It focuses on new approaches to increase enzymatic production by microorganisms the action of microbial inhibitors and strategies for their removal Furthermore it outlines the benefits of this integrated approach for generating value added products and the benefits to social and economic aspects circular bio economy HUBs and perspectives **Recent Advances in Science and Technology Education, Ranging from Modern Pedagogies to Neuroeducation and Assessment** Zacharoula Smyrnaïou,2016-03-08 Science and technology education research influenced by inquiry based thinking not only concentrates on the teaching of scientific concepts and addressing any misconceptions that learners may hold but also emphasizes the ways in which students learn and seeks avenues to achieve better learning through creativity New developments in science and technology education rely on a wide variety of methods borrowed from various fields of science such as computer science cognitive science sociology and neurosciences

This book presents papers from the first international conference on New Developments in Science and Technology Education that was structured around seven main thematic axes namely modern pedagogies in science and technology education new technologies in science and technology education assessment in science and technology education teaching and learning in the light of inquiry learning methods neuroscience and science education conceptual understanding and conceptual change in science and interest attitude and motivation in science It explores the beneficial impact of pedagogically updated practices and approaches in the teaching of science concepts and elaborates on future challenges and emerging issues that concern science and technology education By pointing out new research directions the volume will inform educational practices and bridge the gap between research and practice providing new information ideas and perspectives It will also promote discussions and networking among scientists and stakeholders from worldwide scientific fields such as researchers professors students and companies developing educational software Renewable Energy Systems Sanjay Kumar, Nikita Gupta, Sandeep Kumar, Subho Upadhyay, 2022-11-01 RENEWABLE ENERGY SYSTEMS Providing updated and state of the art coverage of a rapidly changing science this groundbreaking new volume presents the latest technologies processes and equipment in renewable energy systems for practical applications This groundbreaking new volume examines recent advances in the area of renewable energy systems including modeling and optimization using different methods like GAMS HOMER AI techniques and MATLAB Simulink and others Covering extensively diverse topics ranging from solar radiation prediction model to improving solar power output by studying the tilt and orientation angle of rooftop mounted systems a multitude of practical applications are covered offering solutions to everyday problems as well as the theory and concepts behind the technology Among these applications are increasing the longevity of PV by studying its degradation and its use by operating an electrolyzer for hydrogen production using biodiesel as a green energy resource as an alternative to diesel fuel concentrating the black liquor based biomass as a source from multiple stage evaporator along with thermo vapour compressor and the real time problems of modeling and optimizing renewable energy sources Written and edited by a global team of experts this groundbreaking new volume from Scrivener Publishing presents recent advances in the study of renewable energy systems across a variety of fields and sources Valuable as a learning tool for beginners in this area as well as a daily reference for engineers and scientists working in these areas this is a must have for any library

**Recent Advances in Quantitative Remote Sensing** José A. Sobrino, José Antonio Sobrino Rodríguez, 2002 *Recent Advances in Green Technologies and Sustainable Development* Mahesh M Bunde, Rekha Nair, Piyusha Somvanshi, 2024-06-20 Recent advances in green technologies and sustainable development deals with cutting edge research and innovative ideas in different categories of green technologies and operational aspects of sustainable development including renewable energy sources power systems mathematical ecology industrial technologies construction and material sciences The chapters are written by eminent and insightful authors to propose improvement and expansion of processes and

applications connected to sustainable development Environmental awareness and protection are one of the challenging issues of the new millennia Industrialization and population explosion has opened new frontiers in the conservation of environmental protection Rapid urbanization is proving to have direct consequences on the environment The need of the hour is a balanced approach to multi layered conservative methods Any sustainable development has a multifaceted approach encompassing environmental technological social and economical developmental dimensions This book focuses on these various issues in a progressive manner The selected papers in this book have highlighted a plethora of issues related to green technology and sustainable development Ample care has been given to selecting the papers which tried to bridge the gap between technological advancement and its impact on the environment [Recent Advances in Applied Sciences](#) Ritesh Bhat,Nithesh Naik,Ketan Kotecha,Antony V. Samrot,Sachi Nandan Mohanty,Bhaskar Somani,2025-06-07 This book commences with an editorial overview providing a comprehensive introduction to the current landscape and future prospects in engineering and technology Volume 1 of the International Conference on Innovative Discoveries and Emerging Advancements in Applied Sciences iDEAAS 2024 proceedings is a groundbreaking compilation that encapsulates the forefront of engineering and technological innovations This meticulously curated book serves as a cornerstone for professionals academics and students who are navigating the ever evolving realms of engineering and technology This sets the tone for a deep dive into a series of specialized topics In the aerospace and marine technologies section the book presents pioneering research and studies It offers insights into the latest advancements in aerospace engineering delving into the complexities and innovations in aircraft and spacecraft design Simultaneously it explores the strides made in marine technologies highlighting the synergies and technological crossovers between these two critical fields The infrastructure and environment section addresses one of the most pressing concerns of the 21st century sustainable development This section is particularly insightful for its focus on the environmental impact of infrastructure development and the challenges of maintaining ecological balance Mechatronics and automation is another highlight of this volume where the fusion of mechanical engineering electronics and computing leads to fascinating innovations in automation and system design This section underscores the importance of interdisciplinary approaches in solving complex engineering problems and enhancing operational efficiency in various industries In the realm of computing and information technology the book explores the transformative impact of digital technologies on engineering The book culminates with a comprehensive summary that not only synthesizes the key themes discussed but also looks ahead at the future of engineering and technology It offers a visionary perspective on the emerging trends and potential advancements that are poised to redefine the engineering landscape

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