

Renewable Energy Resources

BASIC PRINCIPLES AND APPLICATIONS

G N Tiwari • M K Ghosal



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Renewable Energy Resources G N Tiwari, M K Ghosal, 2004-08 In the present global energy scenario renewable energy resources have become important topics from both the economical and environmental points of view. The present book therefore discusses Global and National status of renewable energy resources and provides a platform to understand the basic principle applications modeling energetic and economic analysis of renewable energy resources namely solar biofuels biomass biogas wind hydropower geothermal waves ocean tidal and animal energy resources etc. The basic principles of heat and mass transfer and thermodynamic cycles in biopower generation have been discussed. Environmental impacts of renewable energy sources have also been discussed.

Renewable and Alternative Energy Resources Muhammad Asif Hanif, Farwa Nadeem, Rida Tariq, Umer Rashid, 2021-11-27 Renewable and Alternative Energy Resources provides comprehensive information on the status of all renewable and non renewable energy resources. Chapters discuss the technological developments and environmental impacts of each energy source giving a valuable reference of up to date scientific progress technical application and comparative ecological analysis of each source. In addition to understanding the process involved in generating energy the book looks at possible merits and demerits relevant to environmental problems highlighting the importance of the implementation of sustainable approachable cost effective and durable renewable energy resources. Designed to highlight relevant concepts on energy efficiency current technologies and ongoing industrial trends this is an ideal reference source for academics practitioners professionals and upper level students interested in the latest research on renewable energy. Discusses developments in both renewable and non renewable energy sources. Highlights the status of exploitive experimental studies conducted on the global status of alternative energies. Outlines novel opportunities for improving technologies for the billion dollar renewable industry.

Renewable Energy: Accelerating the Energy Transition Rahul Goyal, Satyanarayan Patel, Abhishek Sharma, 2023-11-14 This book reveals key challenges to ensuring the secure and sustainable production and use of energy resources and provides corresponding solutions. This book covers the advanced technologies applied in renewable energy generation energy storage an alternative to petroleum fuels waste to energy solar energy the impact of fossil fuel combustion on the environment green buildings social sustainability etc. It goes beyond theory and describes practical challenges and solutions associated with energy and sustainability. This book is of particular interest to graduate students and academic or industrial researchers professionals working in renewable energy sustainability bioenergy and mechanical and automobile engineering. This book makes a forceful foundation for the establishment of the role of renewable energy in energy transition for a sustainable cleaner and greener future. This book is unique compared to other available books because it covers a wide variety of topics on a single platform.

Advanced Renewable Energy Sources G. N. Tiwari, Rajeev Kumar Mishra, 2012 This book is an ideal reference text for teaching renewable energy to engineering and science students as well as a reference book for scientists and professionals doing self

study on the subject The book has twelve chapters and starts with the definition and classification of renewable and non renewable energy and their status at global level This chapter also contains the basic heat transfer mechanisms and laws of thermodynamics It then deals with availability of solar radiation at different latitudes and energy and exergy analysis of flat plate collector solar air collector solar concentrator evacuated tube collector solar water heating system solar distillation and solar cooker The following chapter discusses the basics of semiconductor its characteristics working characteristics of solar cell in dark and daylight situation fundamentals of characteristic curves of semiconductor fundamentals of PV module and array and some PVT systems Detailed discussion on biomass bio fuels and biogas and their applications and the power produced by them namely bio power is covered in the following chapters Other renewable energy sources like hydropower wind and geothermal are then covered as well as a chapter dealing with the working principle basic theory and the capability to produce power from ocean thermal tidal wave and animal energy conversion systems Subsequently net CO₂ mitigation carbon credit climate change and environmental impacts of all renewable energy resources are all covered followed by a discussion on the techno economic feasibility of any energy sources as the backbone of its success and hence energy and economic analysis The chapters deal the overall exergy of renewable energy sources by using the thermal and mechanical power and electrical energy as output SI units are used throughout the book in solving various exercises in each chapter and conversion units of various physical and chemical parameters of metals and non metals are also given in appendices

CRC Handbook of Thermal Engineering Raj P. Chhabra, 2017-11-08 The CRC Handbook of Thermal Engineering Second Edition is a fully updated version of this respected reference work with chapters written by leading experts Its first part covers basic concepts equations and principles of thermodynamics heat transfer and fluid dynamics Following that is detailed coverage of major application areas such as bioengineering energy efficient building systems traditional and renewable energy sources food processing and aerospace heat transfer topics The latest numerical and computational tools microscale and nanoscale engineering and new complex structured materials are also presented Designed for easy reference this new edition is a must have volume for engineers and researchers around the globe

Machine Learning, Advances in Computing, Renewable Energy and Communication Anuradha Tomar, Hasmat Malik, Pramod Kumar, Atif Iqbal, 2021-08-19 This book gathers selected papers presented at International Conference on Machine Learning Advances in Computing Renewable Energy and Communication MARC 2020 held in Krishna Engineering College Ghaziabad India during December 17 18 2020 This book discusses key concepts challenges and potential solutions in connection with established and emerging topics in advanced computing renewable energy and network communications

Renewable Energy Technologies Sanjay Agrawal, Rajeev Kumar Mishra, 2025-06-01

Nonconventional Energy Ashok V. Desai, Mohan Munasinghe, 1990 With special reference to developing countries

Image Processing in Renewable: Energy Resources Opportunities and Challenges Rajesh Singh, Sachin Mishra, Anita Gehlot, Mohit Srivastava, 2022-01-04 This book is a compilation of innovative work on image

processing applications for renewable energy systems The chapters in the book describe the use of neural networks in multi direction dynamic topographical data frameworks which are designed to account for the distinctive contemporary issues faced when managing environmentally friendly power generation systems The topics covered include uncertainty analysis methods computing technologies automated control systems performance analysis riverfront analysis through image processing and solar power estimation methods to name a few The information is also complemented with a review of problems in the electric power sector in India This book is beneficial for professionals and researchers who work on hybrid techniques of GIS remote sensing image processing and the implementation of these techniques for utilizing renewable energy resources Engineers who work on advanced algorithms for renewable energy applications will also get an updated perspective about relevant innovations in this industrial sector Alternative Energy Resources Pankaj Pathak,Rajiv Ranjan Srivastava,2021-01-04 This book reviews alternative and renewable energy resources in order to pave the way for a more sustainable production in the future A multi disciplinary team of authors provides a comprehensive overview of current technologies and future trends including solar technologies wind energy hydropower microbial electrochemical systems and various biomass sources for biofuel production In addition the book focuses on solutions for developing countries Conventional energy sources are finite and estimates suggest that they will be exhausted within a few decades Finding a solution to this problem is a global challenge and developing countries in particular are still highly dependent on fossil fuels due to their rapidly growing populations accompanied by a huge growth in primary energy consumption Moreover the most common conventional energy sources coal and petroleum are non sustainable since their combustion exponentially increases greenhouse gas emissions As such there is a pressing need for clean energy based on alternative or renewable resources not only to ensure energy supplies at an affordable price but also to protect the environment **Renewable Energy Powered Desalination Handbook** Gnaneswar Gude,2018-03-08 Renewable Energy Powered Desalination Handbook Applications and Thermodynamics offers a practical handbook on the use of renewable technologies to produce freshwater using sustainable methods Sections cover the different renewable technologies currently used in the field including solar wind geothermal and nuclear desalination This coverage is followed by an equally important clear and rigorous discussion of energy recovery and the thermodynamics of desalination processes While seawater desalination can provide a climate independent source of drinking water the process is energy intensive and environmentally damaging This book provides readers with the latest methods processes and technologies available for utilizing renewable energy applications as a valuable technology Desalination based on the use of renewable energy sources can provide a sustainable way to produce fresh water It is expected to become economically attractive as the costs of renewable technologies continue to decline and the prices of fossil fuels continue to increase Covers renewable energy sources such as nuclear geothermal solar and wind powered desalination and energy storage and optimization Includes energy recovery schemes optimization and process controls Elaborates on the

principles of thermodynamics and second law efficiencies to improve process performance including solar desalination Explains global applicability of solar wind geothermal and nuclear energy sources with case studies Discusses renewable energy desalinated water optimization schemes for island communities Reviews of Renewable Energy Resources ,1986

Renewable Energy: Generation and Application Ala A. Hussein,2024-08-15 The book covers the current status of renewable energy technology such as solar wind hydro and geothermal power engineering and biomass conversion It focusses on technical challenges and potential future developments in electricity generation electrical vehicles heating and cooling industrial processes and rural electrification Keywords Solar Energy Wind Energy Wind Farms Hydropower Hydroelectric Dams Geothermal Energy Biomass Energy Agricultural Residues Organic Waste Electricity Transportation Global Energy Systems **Fundamentals and Source Characteristics of Renewable Energy Systems** Radian Belu,2019-09-10 This textbook is intended for an audience with little or no power engineering or renewable energy background The book covers electric energy from alternative energy sources including solar wind water hydropower geothermal and ocean energy Core issues discussed include wind and solar resource estimates and analysis solar thermal systems solar collectors photovoltaics wind turbines geothermal energy energy small hydropower wave tide and ocean energy and characteristics of energy conversion control and electrical aspects This is one of the most comprehensive textbooks for students engineers and professionals who study renewable energy There are several questions and problems presented with increasing difficulty most of which focus on practical applications The materials and problems are drawn from the author s extensive experience in renewable energy analysis assessment design control and the power electronics of wind and solar energy conversion systems Each section of the book contains several solved examples as well as practical and advanced discussions that instill critical thinking and apply to industrial applications The book is divided into eight chapters and covers the most important aspects of renewable energy sources and technologies **Renewable Energy Sources and their Applications** Mr. Rohit Manglik,2024-05-08 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels *Digital Innovations for Renewable Energy and Conservation* Mukthar K. P., Jaheer,Jain, Vishal,Tsai, Sang Bing,Wu, Chia Huei,2024-09-17 With the growing urgency of climate change digital innovations emerge as pivotal tools in advancing renewable energy and conservation efforts From sophisticated data analytics that optimize energy efficiency to smart grids that enhance the reliability of renewable sources technology is transforming how we produce manage and conserve energy To harness the full potential of these renewable innovations effective research into cutting edge digital technologies and practices is necessary Digital Innovations for Renewable Energy and Conservation delves into the intersection of digitalization and sustainable growth exploring how advancements in technology can be leveraged to foster

environmental sustainability and economic prosperity It examines the evolving landscape of the global economy in the digital age identifying opportunities and challenges for achieving sustainable development goals This book covers topics such as climatology smart cities and digital technology and is a useful resource for policymakers business owners computer engineers environmentalists conservationists academicians scientists and researchers Advances in Energy and Combustion Ashwani K. Gupta,Ashoke De,Suresh K. Aggarwal,Abhijit Kushari,Akshai K. Runchal,2021-08-07 This book provides state of the art advances in several areas of importance in energy combustion power propulsion environment using fossil fuels and alternative fuels and biofuels production and utilization Availability of clean and sustainable energy is of greater importance now than ever before in all sectors of energy power mobility and propulsion Written by internationally renowned experts the latest fundamental and applied research innovations on cleaner energy production as well as utilization for a wide range of devices extending from micro scale energy conversion to hypersonic propulsion using hydrocarbon fuels are provided The tailored technical tracks and contributions from the world renowned technical experts are portrayed in the respective field to highlight different but complementary views on fuels combustion power and propulsion and air toxins with special focus on current and future R D needs and activities The energy and environment sustainability require a multi pronged approach involving development and utilization of new and renewable fuels design of fuel flexible combustion systems that can be easily operated with the new fuels and develop novel and environmentally friendly technologies for improved utilization of all kinds of gas liquid and solid fuels This volume is a useful book for practicing engineers research engineers and managers in industry and research labs academic institutions graduate students and final year undergraduate students in Mechanical Chemical Aerospace Energy and Environmental Engineering

Management of Civic Energy and the Green Transformation Anna Brzozowska,Piotr Maśloch,Grzegorz Maśloch,2023-05-11 An increase in the global demand for energy combined with an increase in the price of energy and energy products has advanced the growing interest in renewable energy technologies and the wide implementation of renewable energy sources RES Member States of the European Union have been global leaders in the use of renewable energy and in the transition to new technologies Management of Civic Energy and the Green Transformation A Case Study of Poland examines the current issues of transitioning from traditional energy sources to newer renewable energy sources while balancing supplies and working synergistically with existing conventional sources Features Offers a balanced blend of theory and practice of development economics for renewable energy implementation Presents a case study of how Poland is working towards their energy transition and provides other examples and recent statistical data from other European Union countries Analyses the legal and systemic conditions supporting the development of renewable energy systems and offers direction on the potential for the green development of the civic energy sector **Smart Energy and Advancement in Power**

Technologies Kumari Namrata,Neeraj Priyadarshi,Ramesh C. Bansal,Jitendra Kumar,2022-11-08 This book comprises peer

reviewed proceedings of the International Conference on Smart Energy and Advancement in Power Technologies ICSEAPT 2021 The book includes peer reviewed papers on renewable energy economics and policy renewable energy resource assessment operations management and sustainability energy audit global warming waste and resource management green energy deployment green buildings integration of green energy energy efficiency etc The book serves as a valuable reference resource for academics and researchers across the globe

The Development of Renewable Energy Sources and its Significance for the Environment Almas Heshmati, Shahrouz Abolhosseini, Jörn Altmann, 2015-04-15 This book analyzes the effects of power generated by renewable energy sources renewable energy production technologies energy efficiency and market regulation of carbon emissions It elaborates on how these parameters have direct and indirect effects on carbon emission reduction such as the results of an environmental tax that could directly reduce carbon emissions by decreasing fossil fuel consumption or by stimulating energy savings through technological innovation as well as how renewable energy sources can affect both economic growth and the environment In addition to a detailed analysis of the interrelationships between renewable energy consumption production technology and market regulation The Development of Renewable Energy Sources and its Significance for the Environment proposes a model for measuring the effectiveness and results of the interaction between these links Furthermore a structure for a marketplace of renewable energy sources is put forward as well as an outline of the requirements that must be met in order for this market to function Suitable policy recommendations to enhance the market for renewable energies are also provided

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