

Solar Energy Fundamentals And Application Hp Garg J Prakash Pdf

Advances in Solar Energy Technology H.P. Garg 2011-10-01 This volume is the third in the series of the book entitled, 'Advances in Solar Energy Technology'. The purpose of writing this multiple volume book is to provide all the relevant latest information in the field of Solar Energy (Applied as well as theoretical) to serve as the best source material at one place. Attempts are made to discuss topics in depth to assist both the students (undergraduate, post-graduate, Research Scholars) and the professionals (consulting, design, contracting firms). The third volume discusses the heating, agricultural and photovoltaic applications of Solar Energy. Chapter 1 deals with solar cookers, one of the important application areas for developing countries. After discussing the history of solar cookers, eight types of direct solar cookers, two types of box solar cookers and two types of advanced solar cookers are discussed in detail. The performance studies carried out on direct type and on box type solar cookers are also presented. A test procedure for rating a box type solar cooker is also introduced. The limitations and advantages of various cookers are discussed briefly in the chapter. Desalinated water for drinking purposes, for industrial and agricultural applications is required. The topic of Solar Distillation is discussed in detail in chapter two. Solar Distillation has a long history and in this chapter various kinds of solar stills like conventional solar still, tilted tray solar still, wick type solar still, multiple effect diffusion solar still, multistage flash distillation, etc.

Unit Operations of Chemical Engineering Warren Lee McCabe 1967

Renewable Energy and Sustainable Technologies for Building and Environmental Applications Mardiana Idayu Ahmad 2016-04-20 This diverse resource on renewable energy and sustainable technologies highlights the status, state of the art, challenges, advancements and options in areas such as energy recovery systems, turbine ventilators, green composites, biofuels and bio-resources for energy production, wind energy, integrated energy-efficient systems, thermal energy storage, natural ventilation & day-lighting systems, and low carbon technologies for building and environmental applications. It is designed to serve as a reference book for students, researchers, manufacturers and professionals working in these fields. The editors have gathered articles from world-leading experts that clearly illustrate key areas in renewable energy and sustainability. The distinct role of these technologies in future endeavors is stressed by taking into account the opportunities to contribute with new approaches, methods and directions for building and environmental applications. The in-depth discussion presented in this book will give readers a clear understanding of every important aspect of each technology's applications, optimum configuration, modifications, limitations and their possible improvements.

Renewable Energy and Green Technology Narendra Kumar 2021-12-09 *Renewable Energy and Green Technology: Principles and Practices* is based on the present need to understand the principles and utility of renewable energy and green technology to minimize dependency on fossil fuels in global development. Renewable energy is the best and cheapest source of energy as an alternate resource. There is massive potential for renewable energy globally, including in India. The efficient utilization of renewable energy resources could minimize the impact of climate change globally. Generally, renewable energy is generated from essentially inexhaustible sources, including wind power, solar power, geothermal energy, tidal energy, biomass energy, and other sources. Hence, encouraging renewable energy use could save our tomorrow from the climate change perspective and in terms of sustainable food production. This book promotes the exchange of ideas, policy formulation, and collective action to ensure a smooth transition to renewable energy. It describes the technological interventions for reducing environmental and economic damage resulting from the use

of conventional energy sources. In this book, the focus is on utilizing various renewable energy sources in diverse sectors. It also elaborates the descriptive methodology of different renewable energies, accompanied by figures and tables. It provides information on biogas energy plants, gasifier technologies, and hydropower technologies, among others, along with their applications. Further, it delves into energy concepts and details significant advantages of the energy resources for sustaining the future world. Lastly, this book will provide instant access to comprehensive, cutting-edge knowledge, making it possible for academicians and researchers to utilize this ever-growing wealth of information. Key features Emphasizes the understanding of the principles and utility of renewable energy and green technology to minimize dependency on fossil fuels in the era of global development Focuses on recent trends in renewable energy with principles and practices in relation to climate change Highlights advanced approaches for sustainable use of renewable energy sources Illustrates the methodology for various aspects of renewable energy with figures and charts Discusses the green technology usages of the agriculture and forestry sectors Provides comprehensive cutting-edge information for policymakers in the field of renewable energy

Risk Management of Non-Renewable Energy Systems Ajit Kumar Verma 2015-05-09 This book describes the basic concepts of risk and reliability with detailed descriptions of the different levels of probabilistic safety assessment of nuclear power plants (both internal and external). The book also maximizes readers insights into time dependent risk analysis through several case studies, whilst risk management with respect to non renewable energy sources is also explained. With several advanced reactors utilizing the concept of passive systems, the reliability estimation of these systems are explained in detail with the book providing a reliability estimation of components through mechanistic model approach. This book is useful for advanced undergraduate and post graduate students in nuclear engineering, aerospace engineering, industrial engineering, reliability and safety engineering, systems engineering and applied probability and statistics. This book is also suitable for one-semester graduate courses on risk management of non renewable energy systems in all conventional engineering branches like civil, mechanical, chemical, electrical and electronics as well as computer science. It will also be a valuable reference for practicing engineers, managers and researchers involved in reliability and safety activities of complex engineering systems.

SOLAR PHOTOVOLTAIC TECHNOLOGY AND SYSTEMS CHETAN SINGH SOLANKI 2013-01-11 This comprehensive training manual discusses the various aspects of solar PV technologies and systems in a student-friendly manner. The text deals with the topics such as solar radiation, various types of batteries, their measurements and applications in SPV systems emphasizing the importance of solar PV technology in renewable energy scenario. It also discusses the method of estimating energy requirement, SPV modules, their formations and connection to arrays, grid-connected SPV captive power systems, tips over troubleshooting of components used in solar PV system, and system designs with plenty of illustrations on all topics covered in the book. The text is supported by a large number of solved and unsolved examples, practical information using numerous diagrams and worksheet that help students understand the topics in a clear way. The text is intended for technicians, trainers and engineers who are working on solar PV systems for design, installation and maintenance of solar PV systems.

Energy Sustainability Through Green Energy Atul Sharma 2015-04-21 This book shares the latest developments and advances in materials and processes involved in the energy generation, transmission, distribution and storage. Chapters are written by researchers in the energy and materials field. Topics include, but are not limited to, energy from biomass, bio-gas and bio-fuels; solar, wind, geothermal, hydro power, wave energy; energy-transmission, distribution and storage; energy-efficient lighting buildings; energy sustainability; hydrogen and fuel cells; energy policy for new and renewable energy technologies and education for sustainable energy development.

Grid-Connected Photovoltaic Power Generation Peter Gevorkian 2017-03-21 Covering technical design and construction aspects as well as

financial analysis and risk assessment, this professional reference work provides a comprehensive overview of solar power technology. Whether or not you have a technology background, this essential guide will help you to understand the design, construction, financial analysis, and risk assessment of solar power technology. The first two chapters present an uncomplicated overview of solar power technology physics, solar cell technology, applications, and equipment. In subsequent chapters, readers are introduced to fundamental econometric analysis in such a way that will allow anyone, whether or not they have a background in finance, to become familiar with the fundamental costing and financing of large scale solar power programs. This book is essential reading for anyone involved with solar power project development, and is suitable for both graduate students and professionals.

Solar Drying Systems Om Prakash 2020-12-28 Solar energy has found its widespread use in direct conversion into electricity either by photovoltaic conversion or through thermal energy, reduction in post-harvest losses, and crop drying. Solar Drying Systems analyzes the fundamentals, principles and applications, heat transfer, elements of drying and solar dryer designs, and related modeling and analysis aspects of solar energy. Discusses both technical and policy-related issues Explores up-to-date status reviews of different solar drying systems Reviews the highlights of present and future solar drying options Includes many figures, solved examples, and tables with problems/exercises at the end of each chapter This book is aimed at senior undergraduate and graduate students in energy engineering.

Carbon Nanofibers Madhuri Sharon 2021-02-09 This book covers the fundamentals and applications of Carbon Nanofiber (CNF). In the first section, the initial chapter on the fundamentals of CNF is by Professor Maheshwar Sharon, the recognized “Father of Carbon Nanotechnology in India”, which powerfully provides a succinct overview of CNFs. This is followed by a chapter on biogenics that have produced unique morphologies of CNF that makes them suitable to various applications. This is followed by a chapter that mainly focuses on nanocomposites, especially those involving nanocomposites of CNF. The role of nanocatalysts and composites in promoting and enhancing the synthesis and application of CNF is then covered, followed by an important chapter on the characterization of CNF. The second section of the book encompasses the various applications of CNF, such as its use as a possible superconductor to adsorb and store hydrogen, and as a microwave absorber. The application of CNF for environmental concerns is also detailed by assessing its usefulness in dye and heavy metal removal from polluted water. The applications that are addressed include lithium-ion battery, solar cell, antenna, cosmetics, usefulness in regenerative medicine, as well as various aspects of agrotechnology.

Advances in Renewable Energies and Power Technologies Imene Yahyaoui 2018-02-12 Advances in Renewable Energies and Power Technologies: Volume 1: Solar and Wind Energies examines both the theoretical and practical elements of renewable energy sources, such as photovoltaics, solar, photothermal and wind energies. Yahyaoui and a team of expert contributors present the most up-to-date information and analysis on renewable energy generation technologies in this comprehensive resource. Covers the principles and methods of each technology, an analysis of their implementation, management and optimization, and related economic advantages and limitations. Features recent case studies and models of each technology. A valuable resource for anyone working in the renewable energy field or wanting to learn more about theoretical and technological aspects of the most recent inventions and research in the field. Offers a comprehensive guide to the most advanced contemporary renewable power generation technologies written by a team of top experts Discusses the energy optimization, control and limitations of each technology, as well as a detailed economic study of the associated costs of implementation and management Includes global case studies and models to exemplify the technological possibilities and limitations of each power generation method

Solar Thermal Energy Storage H.P. Garg 2012-12-06 Energy Storage not only plays an important role in conserving the energy but also improves the performance and reliability of a wide range of energy systems. Energy storagp. leads to saving of premium fuels and makes the system morA cost

effective by reducing the wastage of energy. In most systems there is a mismatch between the energy supply and energy demand. The energy storage can even out this imbalance and thereby help in savings of capital costs. Energy storage is all the more important where the energy source is intermittent such as Solar Energy. The use of intermittent energy sources is likely to grow. If more and more solar energy is to be used for domestic and industrial applications then energy storage is very crucial. If no storage is used in solar energy systems then the major part of the energy demand will be met by the back-up or auxiliary energy and therefore the so called annual solar load fraction will be very low. In case of solar energy, both short term and long term energy storage systems can be used which can adjust the phase difference between solar energy supply and energy demand and can match seasonal demands to the solar availability respectively. Thermal energy storage can lead to capital cost savings, fuel savings, and fuel substitution in many application areas. Developing an optimum thermal storage system is as important an area of research as developing an alternative source of energy.

Grid-Connected Photovoltaic Power Generation Peter Gevorkian 2017-03-21 Covering both technical and financial aspects, this professional reference work provides an overview of solar power technology.

Solar Energy Suhas P. Sukhatme 2008

Handbook of Solar Energy G. N. Tiwari 2016-06-27 This handbook aims at providing a comprehensive resource on solar energy. Primarily intended to serve as a reference for scientists, students and professionals, the book, in parts, can also serve as a text for undergraduate and graduate course work on solar energy. The book begins with availability, importance and applications of solar energy, definition of sun and earth angles and classification of solar energy as thermal and photon energy. It then goes on to cover day lighting parameters, laws of thermodynamics including energy and exergy analysis, photovoltaic modules and materials, PVT collectors, and applications such as solar drying and distillation. Energy conservation by solar energy and energy matrices based on overall thermal and electrical performance of hybrid system are also discussed. Techno-economic feasibility of any energy source is the backbone of its success and hence economic analysis is covered. Some important constants, such as exercises and problems increase the utility of the book as a text.

Treatise on Solar Energy: Fundamentals of solar energy H. P. Garg 1982

Handbook of Microalgae-Based Processes and Products Eduardo Jacob-Lopes 2020-07-23 The Handbook of Microalgae-based Processes and Products provides a complete overview of all aspects involved in the production and utilization of microalgae resources at commercial scale. Divided into four parts (fundamentals, microalgae-based processes, microalgae-based products, and engineering approaches applied to microalgal processes and products), the book explores the microbiology and metabolic aspects of microalgae, microalgal production systems, wastewater treatment based in microalgae, CO₂ capture using microalgae, microalgae harvesting techniques, and extraction and purification of biomolecules from microalgae. It covers the largest number of microalgal products of commercial relevance, including biogas, biodiesel, bioethanol, biohydrogen, single-cell protein, single-cell oil, biofertilizers, pigments, polyunsaturated fatty acids, bioactive proteins, peptides and amino acids, bioactive polysaccharides, sterols, bioplastics, UV-screening compounds, and volatile organic compounds. Moreover, it presents and discusses the available engineering tools applied to microalgae biotechnology, such as process integration, process intensification, and techno-economic analysis applied to microalgal processes and products, microalgal biorefineries, life cycle assessment, and exergy analysis of microalgae-based processes and products. The coverage of a broad range of potential microalgae processes and products in a single volume makes this handbook an indispensable reference for engineering researchers in academia and industry in the fields of bioenergy, sustainable development, and high-value compounds from biomass, as well as graduate students exploring those areas. Engineering professionals in bio-based industries will also find valuable information here when planning or

implementing the use of microalgal technologies. Covers theoretical background information and results of recent research. Discusses all commercially relevant microalgae-based processes and products. Explores the main emerging engineering tools applied to microalgae processes, including techno-economic analysis, process integration, process intensification, life cycle assessment, and exergy analyses.

Advances in Solar Energy Technology H.P. Garg 2011-12-14 The purpose of writing this three volume 'Advances in Solar Energy Technology' is to provide all the relevant latest information available in the field of Solar Energy (Applied as well as Theoretical) to serve as the best source material at one place. Attempts are made to discuss topics in depth to assist both the students (i.e. undergraduate, postgraduate, research scholars etc.) and the professionals (i.e. Consultancy, design, and contracting firms). Chapter 1 starts with a brief history of solar houses (active heating), one of the oldest and still the widely used application of Solar Energy. Various methods of building heating and other general aspects such as building form and functions are also described. Various components of active solar heating of building like solar collector, storage system, control unit, auxiliary heat source, etc. are discussed very briefly. Three types of solar active heating of buildings like Solar air systems, solar liquid systems, and solar assisted heat pump systems are discussed in detail in this chapter. Design details and performance of nine typical solar houses which are in use in different climatic conditions and using some newer concepts are also discussed in depth in this chapter.

Solar Energy Garg & Prakash 2000

Solar Energy G. N. Tiwari 2002 This book sets forth the fundamentals of solar energy, its applications and basic heat transfer. Design, construction, and performance of solar thermal devices and photovoltaic systems are discussed at length, along with the economic aspects of solar systems. The text is complemented by more than 300 figures, 180 solved examples, and numerous problems with hints to their solution. (Midwest).

Solar Drying Technology Om Prakash 2017-08-29 This book offers a comprehensive reference guide to the latest developments and advances in solar drying technology, covering the concept, design, testing, modeling, and economics of solar drying technologies, as well as their impact on the environment. The respective chapters are based on the latest studies conducted by reputed international researchers in the fields of solar energy and solar drying. Offering a perfect blend of research and practice explained in a simple manner, the book represents a valuable resource for researchers, students, professionals, and policymakers working in the field of solar drying and related agricultural applications.

Solar PV and Wind Energy Conversion Systems S. Sumathi 2016-10-06 This textbook starts with a review of the principles of operation, modeling and control of common solar energy and wind-power generation systems before moving on to discuss grid compatibility, power quality issues and hybrid models of Solar PV and Wind Energy Conversion Systems (WECS). MATLAB/SIMULINK models of fuel cell technology and associated converters are discussed in detail. The impact of soft computing techniques such as neural networks, fuzzy logic and genetic algorithms in the context of solar and wind energy is explained with practical implementation using MATLAB/SIMULINK models. This book is intended for final year undergraduate, post-graduate and research students interested in understanding the modeling and control of Solar PV and Wind Energy Conversion Systems based on MATLAB/SIMULINK. - Each chapter includes "Learning Objectives" at the start, a "Summary" at the end and helpful Review Questions - Includes MATLAB/SIMULINK models of different control strategies for power conditioning units in the context of Solar PV - Presents soft computing techniques for Solar PV and WECS, as well as MATLAB/SIMULINK models, e.g. for wind turbine topologies and grid integration - Covers hybrid solar PV and Wind Energy Conversion Systems with converters and MATLAB/SIMULINK models - Reviews harmonic reduction in Solar PV and Wind Energy Conversion Systems in connection with power quality issues - Covers fuel cells and converters with implementation using MATLAB/SIMULINK

Harnessing Solar Heat Brian Norton 2013-10-11 Systems engineered by man to harness solar heat in a controlled manner now include a diverse

range of technologies each serving distinctive needs in particular climate contexts. This text covers the breadth of solar energy technologies for the conversion of solar energy to provide heat, either as the directly-used output or as an intermediary to other uses such as power generation or cooling. It is a wholly updated, extended and revised version of "Solar Energy Thermal Technology" first published in 1992. The text draws on the own author's research and that of numerous colleagues and collaborators at Cranfield University, University of Ulster, Dublin Institute of Technology, Indian Institute of Technology, Delhi and University of Nigeria. The initial chapters deal with relevant fundamental aspects of solar energy meteorology, radiative heat transfer, material properties and energy storage. Solar energy collectors are discussed in detail before a set of chapters deal with each of the full range of applications. The early chapters consider: the solar energy resource, its distribution in geographical, spectral, skyward geometrical and temporal domains; the physics of solar energy absorption, transmission and loss at surfaces; and techniques for storing collected solar energy. Specific collector sub-systems are then discussed in chapters seven to nine. For each system, practical issues are discussed and a proven analytical procedure for predicting performance described. Similarly analyses are presented in the concluding chapters on solar energy systems. These range from dryers to greenhouses to systems that render buildings solar energy systems in themselves and the associated design issues. The context for any use of solar energy is the prevailing climate. This text, being global in scope, defines the most appropriate regions for particular technologies and applications. It is a research-orientated academic work citing publications on the peer-reviewed literature covering engineering and applied science topics intended both for student use, as a reference tool for teaching solar energy and for those researching solar thermal applications in universities, industry or national/commercial laboratories. Insight into the challenges of implementation including practical constraints and operational considerations are provided to aid those undertaking feasibility studies, technical assistance, training assignments or operating testing facilities.

Planning and Installing Photovoltaic Systems Deutsche Gesellschaft für Sonnenenergie 2008 Growth in photovoltaic (PV) manufacturing worldwide continues to increase. In parallel, appropriate standards and certification schemes are being developed. During this period, clear guidance is crucial for integrating this technology into working practices of professionals in the building sector. This bestselling guide has become the essential tool for any installer, engineer and architect, offering guidance, and detailing every subject necessary for successful project implementation, from the technical design to the legal and market issues of PV installation. Beginning with resource assessment and an outline of the core components, this guide comprehensively covers system design, economic analysis, installation, operation and maintenance of PV systems. The book includes a free CD-ROM which contains essential software and additional material. The second edition has been fully updated to reflect the state-of-the-art in technology and concepts and includes: a new chapters on marketing and the history of PV; new information on the photovoltaic market; new material on lightning protection; a new section on building integrated systems; and new graphics, data, photos and software.

Thermal Energy Storage with Phase Change Materials Mohammed Farid 2021-07-26 This book focuses on latent heat storage, which is one of the most efficient ways of storing thermal energy. Unlike the sensible heat storage method, the latent heat storage method provides much higher storage density with a smaller difference between storing and releasing temperatures. Thermal Energy Storage with Phase Change Materials is structured into four chapters that cover many aspects of thermal energy storage and their practical applications. Chapter 1 reviews selection, performance, and applications of phase change materials. Chapter 2 investigates mathematical analyses of phase change processes. Chapters 3 and 4 present passive and active applications for energy saving, peak load shifting, and price-based control heating using phase change materials. These chapters explore the hot topic of energy saving in an overarching way, and so they are relevant to all courses. This book is an ideal research reference for students at the postgraduate level. It also serves as a useful reference for electrical, mechanical, and chemical engineers and students

throughout their work. **FEATURES** Explains the technical principles of thermal energy storage, including materials and applications in different classifications Provides fundamental calculations of heat transfer with phase change Discusses the benefits and limitations of different types of phase change materials (PCM) in both micro- and macroencapsulations Reviews the mechanisms and applications of available thermal energy storage systems Introduces innovative solutions in hot and cold storage applications

The Solar Chimney Jörg Schlaich 1995 Describes a viable alternative power source. Manzanares, Spain's solar chimney has proven to be effective.

Fundamentals of Photovoltaic Modules and Their Applications G. N. Tiwari 2010 Presently there is no single publication available which covers the topics related to photovoltaic (PV) or photovoltaic thermal (PV/T) technologies, thermal modelling, CO₂ mitigation and carbon trading. This book disseminates the current knowledge in the fundamentals of solar energy, photovoltaic (PV) or photovoltaic thermal (PV/T) technologies, energy security and climate change and is aimed at undergraduate and postgraduate students and professionals. The main emphasis of the book is on the design, construction, performance and application of PV and PV/T from the electricity and thermal standpoint. Hot topics covered in the book include: energy security of a nation, climate change, CO₂ mitigation and carbon credit earned by using PV or PV/T technologies (Carbon Trading). This information will prove helpful in filling the gap between the researchers and professionals working on the application of photovoltaic and global climate change. It also covers economic, cost effective and sustainable aspects of photovoltaic technologies. The book gives a detailed history of the new technological developments in PV/T systems worldwide with system photographs and references and elaborates on the fundamentals of hybrid systems and their performances with thermal modelling. Energy and exergy analysis, techno-economic analysis and carbon trading are key chapters for research professionals. The book also includes important case studies to aid understanding of the subject for all readers.

Renewable Energy Resources G. N. Tiwari 2005

Solar Energy H. P. Garg 1997

Solar Photovoltaics CHETAN SINGH SOLANKI 2015-05-09 This thoroughly revised text, now in its third edition, continues to provide a detailed discussion on all the aspects of solar photovoltaic (PV) technologies from physics of solar cells to manufacturing technologies, solar PV system design and their applications. The Third Edition includes a new chapter on “Advances in c-Si Cell Processes Suitable for Near Future Commercialization” (Chapter 8) to introduce the technological advancement in the commercial production to keep the readers up to date. Organized in three parts, Part I introduces the fundamental principles of solar cell operation and design, Part II explains various technologies to fabricate solar cells and PV modules and Part III focuses on the use of solar photovoltaics as part of the system for providing electrical energy. In addition to this, numerous chapter-end exercises are given to reinforce the understanding of the subject. The text is intended for the undergraduate and postgraduate students of engineering for their courses on solar photovoltaic technologies and renewable energy technologies. The book is of immense use for teachers, researchers and professionals working in the photovoltaic field. In a nutshell, this book is an absolute must-read for all those who want to understand and apply the basics behind photovoltaic devices and systems.

Handbook of Drying of Vegetables and Vegetable Products Min Zhang 2017-07-12 This handbook provides a comprehensive overview of the processes and technologies in drying of vegetables and vegetable products. The Handbook of Drying of Vegetables and Vegetable Products discusses various technologies such as hot airflow drying, freeze drying, solar drying, microwave drying, radio frequency drying, infrared radiation drying, ultrasound assisted drying, and smart drying. The book's chapters are clustered around major themes including drying processes and technologies, drying of specific vegetable products, properties during vegetable drying, and modeling, measurements, packaging & safety. Specifically, the book covers drying of different parts and types of vegetables such as mushrooms and herbs; changes to the properties of pigments, nutrients, and texture

during drying process; dried products storage; nondestructive measurement and monitoring of moisture and morphological changes during vegetable drying; novel packaging; and computational fluid dynamics.

Cooking with the Sun Beth Halacy 1992 Shows how to harness the sun's energy in preparing food with plans for building solar ovens. Includes over 90 recipes.

Solar Electricity Handbook Michael Boxwell 2012 Explains how solar panels work, how they can be used, and the steps you need to take to successfully design and install a solar electric system from scratch using photovoltaic solar panels. The accompanying website includes solar calculators and tools to simplify your solar electricity installation.

Solar Thermal Energy Storage System using phase change material for uninterrupted on-farm agricultural processing and value addition Anjum Munir 2019-10-09 Thermal energy storage technologies are gaining attention nowadays for uninterrupted supply of solar power in off-sunshine hours. An indigenized solar phase change material (PCM) system was developed and performance evaluated in the current study to efficiently store solar thermal power using a latent heat storage approach, which can be utilized in any subsequent decentralized food processing application. A 2.5 m² laying Scheffler reflector is used to precisely focus the incoming direct normal irradiance (DNI) on a casted aluminum heat receiver (220 mm diameter) from where this concentrated heat energy is absorbed and conducted to the PCM unit by the flow of thermal oil (Fragoltherm-32 thermo-oil). During the circulation around PCM pipes inside the PCM unit, thermal oil discharges heat energy to the PCM, which undergoes change of phase from solid to liquid. Computational fluid dynamics (CFD) analysis of the PCM unit were also performed according to the actual boundary conditions, which gave satisfactory results in terms of temperature and velocity distribution. With an average DNI of 781 W/m², the highest temperature of the receiver surface during the trials was observed at about 155 C that produces thermal oil at 110°C inside the receiver and around 48°C of PCM in the PCM unit. The heat energy losses per unit time (W) due to the lack of reflectivity from the Scheffler reflector, out-of-focus radiations at the targeted area, absorptivity of heat receiver, piping system losses, and cylinder losses (in the form of conduction, convection, and radiations using 50 mm insulation thickness) were found to be 110 W (10 %), 99 W (9 %), 89 W (8 %), 128 W (12 %), 161 W (15 %), and 89 W (8 %), respectively. These findings of CFD analysis and mathematical modeling were also consistent with real-time data, which was logged through an online Control and Monitoring Interface portal. The final energy available to the PCM was 414W with an overall system efficiency of 38 %, which can be improved by decreasing thermal losses of the system and using other PCM materials.

Principles of Solar Engineering, Second Edition D. Yogi Goswami 2000-01-01 This second edition of Principles of Solar Engineering covers the latest developments in a broad range of topics of interest to students and professionals interested in solar energy applications. With the scientific fundamentals included, the book covers important areas such as heating and cooling, passive solar applications, detoxification and biomass energy conversion. This comprehensive textbook provides examples of methods of solar engineering from around the world and includes examples, solutions and data applicable to international solar energy issues. A solutions manual is available to qualified instructors.

Energy Harvesting Alireza Khaligh 2017-12-19 Also called energy scavenging, energy harvesting captures, stores, and uses "clean" energy sources by employing interfaces, storage devices, and other units. Unlike conventional electric power generation systems, renewable energy harvesting does not use fossil fuels and the generation units can be decentralized, thereby significantly reducing transmission and distribution losses. But advanced technical methods must be developed to increase the efficiency of devices in harvesting energy from environmentally friendly, "green" resources and converting them into electrical energy. Recognizing this need, Energy Harvesting: Solar, Wind, and Ocean Energy Conversion Systems describes various energy harvesting technologies, different topologies, and many types of power electronic interfaces for stand-alone utilization or grid

connection of energy harvesting applications. Along with providing all the necessary concepts and theoretical background, the authors develop simulation models throughout the text to build a practical understanding of system analysis and modeling. With a focus on solar energy, the first chapter discusses the I–V characteristics of photovoltaic (PV) systems, PV models and equivalent circuits, sun tracking systems, maximum power point tracking systems, shading effects, and power electronic interfaces for grid-connected and stand-alone PV systems. It also presents sizing criteria for applications and modern solar energy applications, including residential, vehicular, naval, and space applications. The next chapter reviews different types of wind turbines and electrical machines as well as various power electronic interfaces. After explaining the energy generation technologies, optimal operation principles, and possible utilization techniques of ocean tidal energy harvesting, the book explores near- and offshore approaches for harvesting the kinetic and potential energy of ocean waves. It also describes the required absorber, turbine, and generator types, along with the power electronic interfaces for grid connection and commercialized ocean wave energy conversion applications. The final chapter deals with closed, open, and hybrid-cycle ocean thermal energy conversion systems.

Solar Thermal Engineering Systems G. N. Tiwari 1997 This text covers all aspects of solar energy, including: the concepts and definitions of basic heat transfer; flat-plate collectors; solar air heaters; solar concentrator; solar distillation; passive solar house; other applications; energy storage; photovoltaic systems; and economic analysis.

Photovoltaic Solar Energy Generation Adolf Goetzberger 2005-09-06 The intention of this book is to provide an impression of all aspects of photovoltaics (PV). It is not just about physics and technology or systems, but it looks beyond that at the entire environment in which PV is embedded. The first chapter is intended as an introduction to the subject. It can also be considered an executive summary. Chapters 2–4 describe very briefly the basic physics and technology of the solar cell. The silicon cell is the vehicle for this description because it is the best understood solar cell and also has the greatest practical importance. A reader who is not interested in the physical details of the solar cell can skip Chap.2 and still understand the rest of the book. In general, it was the intention of the authors to keep the book at a level that does not require too much previous knowledge of photovoltaics. Chapter 5 is devoted to other materials and new concepts presently under development or consideration. It intends to provide an impression of the many possibilities that exist for the conversion of solar radiation into electricity by solid state devices. These new concepts will keep researchers occupied for decades to come. Chapter 6 gives an introduction to cell and module technology and also informs the reader about the environmental compatibility and recycling of modules. The following chapters are devoted to practical applications. Chapters 7 and 8 introduce systems technology for different applications. The environmental impact of PV systems and their reliability is the subject of Chap.9.

Renewable Energy Stephen Peake 2018 This international edition of renewable energy is the ideal introduction to the subject. The interdisciplinary approach brings together economic, social, environmental and policy issues to give a comprehensive assessment of this multi-faceted area -- Publisher description.

Wind and Solar Power Systems Mukund R. Patel 2005-07-15 The search for clean, renewable energy sources has yielded enormous growth and new developments in these technologies in a few short years, driving down costs and encouraging utilities in many nations, both developed and developing, to add and expand wind and solar power capacity. The first, best-selling edition of Wind and Solar Power Systems prov

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