

# Concentrating solar power technology

Principles, developments and applications

Edited by Keith Lovegrove and Wes Stein



Concentrating Solar Power Technology Principles

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# Concentrating Solar Power Technology Principles Developments And Applications Woodhead Publishing Series In:

Concentrating Solar Power Technology Keith Lovegrove, Wes Stein, 2012-10-19 Concentrating solar power CSP technology is poised to take its place as one of the major contributors to the future clean energy mix Using straightforward manufacturing processes CSP technology capitalises on conventional power generation cycles whilst cost effectively matching supply and demand though the integration of thermal energy storage Concentrating solar power technology provides a comprehensive review of this exciting technology from the fundamental science to systems design development and applications Part one introduces fundamental principles of concentrating solar power systems Site selection and feasibility analysis are discussed alongside socio economic and environmental assessments Part two focuses on technologies including linear Fresnel reflector technology parabolic trough central tower and parabolic dish concentrating solar power systems and concentrating photovoltaic systems Thermal energy storage hybridization with fossil fuel power plants and the long term market potential of CSP technology are explored Part three goes on to discuss optimisation improvements and applications Topics discussed include absorber materials for solar thermal receivers design optimisation through integrated techno economic modelling heliostat size optimisation heat flux and temperature measurement technologies concentrating solar heating and cooling for industrial processes and solar fuels and industrial solar chemistry With its distinguished editors and international team of expert contributors Concentrating solar power technology is an essential guide for all those involved or interested in the design production development optimisation and application of CSP technology including renewable energy engineers and consultants environmental governmental departments solar thermal equipment manufacturers researchers and academics Provides a comprehensive review of concentrating solar power CSP technology from the fundamental science to systems design development and applications Reviews fundamental principles of concentrating solar power systems including site selection and feasibility analysis and socio economic and environmental assessments Provides an overview of technologies such as linear Fresnel reflector technology parabolic trough central tower and parabolic dish concentrating solar power systems and concentrating photovoltaic systems Concentrating Solar Power Technology Keith Lovegrove, Wes Stein, 2020-11-26 This second edition of Concentrating Solar Power Technology edited by Keith Lovegrove and Wes Stein presents a fully updated comprehensive review of the latest technologies and knowledge from the fundamental science to systems design development and applications Part one introduces the fundamental principles of CSP systems including site selection and feasibility analysis alongside socio economic and environmental assessments Part two focuses on technologies including linear Fresnel reflector technology parabolic trough central tower and parabolic dish CSP systems and concentrating photovoltaic systems Thermal energy storage hybridization with fossil fuel power plants and the long term market potential of CSP technology are also explored Part three goes on to discuss optimization improvements

and applications such as absorber materials for solar thermal receivers design optimization through integrated techno economic modelling and heliostat size optimization With its distinguished editors and international team of expert contributors Concentrating Solar Power Technology Second Edition is an essential guide for all those involved or interested in the design production development optimization and application of CSP technology including renewable energy engineers and consultants environmental governmental departments solar thermal equipment manufacturers researchers and academics Provides a comprehensive review of concentrating solar power CSP technology from the fundamental science to systems design development and applications Reviews fundamental principles of CSP systems including site selection and feasibility analysis and socio economic and environmental assessments Includes an overview of the key technologies of parabolic trough central tower linear Fresnel reflector and parabolic dish CSP systems and concentrating photovoltaic Electromagnetic Foundations of Solar Radiation Collection Alan J. Sangster, 2014-08-06 This text seeks to systems illuminate mainly for the electrical power engineers of the future the topic of large scale solar flux gathering schemes which arguably represent the major source of renewable power available. The aim of the content is to impart from an electromagnetic perspective a deep and sound understanding of the topic of solar flux collection ranging from the characteristics of light to the properties of antennas To do this five chapters are employed to provide a thorough grounding in relevant aspects of electromagnetism and electromagnetic waves including optics electromagnetic radiation and reception aperture antennas and array antennas and the quantum electrodynamics aspects of optical absorption as it relates to photovoltaic techniques The principles developed in these chapters are then used to underpin and elucidate the main chapters on photovoltaic collectors concentrated solar power collectors satellite based collection systems and optical nantennas To establish the novel and transformative renewable technologies which civilisation will soon require in order to achieve sustainability quickly and effectively the availability of professional engineers and scientists with a thorough and commanding grasp of the fundamental science is an absolutely essential prerequisite This book provides this for solar power generating systems Renewable Energy Resources John Twidell, Tony Weir, 2015-01-26 Renewable Energy Resources is a numerate and quantitative text covering the full range of renewable energy technologies and their implementation worldwide Energy supplies from renewables such as from biofuels solar heat photovoltaics wind hydro wave tidal geothermal and ocean thermal are essential components of every nation s energy strategy not least because of concerns for the local and global environment for energy security and for sustainability Thus in the years between the first and this third edition most renewable energy technologies have grown from fledgling impact to significant importance because they make good sense good policy and good business This Third Edition is extensively updated in light of these developments while maintaining the book s emphasis on fundamentals complemented by analysis of applications Renewable energy helps secure national resources mitigates pollution and climate change and provides cost effective services These benefits are analysed and

illustrated with case studies and worked examples The book recognises the importance of cost effectiveness and efficiency of end use Each chapter begins with fundamental scientific theory and then considers applications environmental impact and socio economic aspects before concluding with Quick Questions for self revision and Set Problems The book includes Reviews of basic theory underlying renewable energy technologies such as electrical power fluid dynamics heat transfer and solid state physics Common symbols and cross referencing apply throughout essential data are tabulated in appendices An associated eResource provides supplementary material on particular topics plus a solutions guide to Set Problems Renewable Energy Resources supports multi disciplinary master degrees in science and engineering and specialist modules in first degrees Practising scientists and engineers who have not had a comprehensive training in renewable energy will find it a useful introductory text and a reference book Advances in Wind Turbine Blade Design and Materials Povl Brondsted, Rogier P. L. Nijssen, 2013-10-31 Wind energy is gaining critical ground in the area of renewable energy with wind energy being predicted to provide up to 8% of the world's consumption of electricity by 2021 Advances in wind turbine blade design and materials reviews the design and functionality of wind turbine rotor blades as well as the requirements and challenges for composite materials used in both current and future designs of wind turbine blades Part one outlines the challenges and developments in wind turbine blade design including aerodynamic and aeroelastic design features fatigue loads on wind turbine blades and characteristics of wind turbine blade airfoils Part two discusses the fatigue behavior of composite wind turbine blades including the micromechanical modelling and fatigue life prediction of wind turbine blade composite materials and the effects of resin and reinforcement variations on the fatigue resistance of wind turbine blades The final part of the book describes advances in wind turbine blade materials development and testing including biobased composites surface protection and coatings structural performance testing and the design manufacture and testing of small wind turbine blades Advances in wind turbine blade design and materials offers a comprehensive review of the recent advances and challenges encountered in wind turbine blade materials and design and will provide an invaluable reference for researchers and innovators in the field of wind energy production including materials scientists and engineers wind turbine blade manufacturers and maintenance technicians scientists researchers and academics Reviews the design and functionality of wind turbine rotor blades Examines the requirements and challenges for composite materials used in both current and future designs of wind turbine blades Provides an invaluable reference for researchers and innovators in the field of wind energy production Irradiation Embrittlement of Reactor Pressure Vessels (RPVs) in Nuclear Power Plants Naoki Soneda, 2014-09-01 Reactor Pressure Vessels RPVs contain the fuel and therefore the reaction at the heart of nuclear power plants They are a life determining structural component if they suffer serious damage the continued operation of the plant is in jeopardy This book critically reviews irradiation embrittlement the main degradation mechanism affecting RPV steels and mitigation routes for managing the RPV lifetime Part I reviews RPV design and fabrication in different countries with an

emphasis on the materials required their important properties and manufacturing technologies Part II then considers RVP embrittlement in operational nuclear power plants using different reactors Chapters are devoted to embrittlement in light water reactors including WWER type reactors and Magnox reactors Finally Part III presents techniques for studying embrittlement including irradiation simulation techniques microstructural characterisation techniques and probabilistic fracture mechanics Irradiation Embrittlement of Reactor Pressure Vessels RPVs in Nuclear Power Plants provides a thorough review of an issue that is central to the safety of nuclear power generation The book includes contributions from an international team of experts and will be a useful resource for nuclear plant operators and managers relevant regulatory and safety bodies nuclear metallurgists and other academics in this field Discusses reactor pressure vessel RPV design and the effect irradiation embrittlement can have the main degradation mechanism affecting RPVs Examines embrittlement processes in RPVs in different reactor types as well as techniques for studying RPV embrittlement Heating and Cooling Ruzhu Wang, Tianshu Ge, 2016-05-25 Advances in Solar Heating and Cooling presents new information on the growing concerns about climate change the security of energy supplies and the ongoing interest in replacing fossil fuels with renewable energy sources The amount of energy used for heating and cooling is very significant estimated for example as half of final energy consumption in Europe Solar thermal installations have the potential to meet a large proportion of the heating and cooling needs of both buildings and industry and the number of solar thermal installations is increasing rapidly This book provides an authoritative review of the latest research in solar heating and cooling technologies and applications Provides researchers in academia and industry with an authoritative overview of heating and cooling for buildings and industry in one convenient volume Part III Solar cooling technologies is contributed by authors from Shanghai Jiao Tong University which is a world leader in this area Covers advanced applications from zero energy buildings through The Coal Handbook: Towards Cleaner Production Dave industrial process heat to district heating and cooling Osborne, 2013-10-31 Coal remains an important fossil fuel resource for many nations due to its large remaining resources relatively low production and processing cost and potential high energy intensity Certain issues surround its utilisation however including emissions of pollutants and growing concern about climate change The coal handbook Towards cleaner production Volume 2 explores global coal use in industry Part one is an introductory section which reviews the social and economic value of coal emissions from coal utilisation the handling impact and utilisation of coal waste and an exploration of emerging and future issues around industrial coal utilization Chapters in part two highlight coal resources production and use in established markets as well as the emerging markets of Brazil the Russian Federation India Indonesia and China Part three focuses specifically on coal utilisation in industry Chapters consider thermal coal utilisation coal use in iron and steel metallurgy advances in pulverised fuel technology and the evaluation of coal for thermal and metallurgical applications Further chapters explore coal utilisation in the cement and concrete industries coal gasification and conversion and value in

use assessment for thermal and metallurgical coal A final chapter summarises the anticipated future pathway towards sustainable long term coal use suggesting transitions that will be needed to ensure cleaner utilisation for many decades to come With its distinguished editor and international team of expert contributors The coal handbook Volumes 1 and 2 is a comprehensive and invaluable resource for professionals in the coal mining preparation and utilisation industry those in the power sector including plant operators and engineers and researchers and academics interested in this field Reviews the social and economic value of coal emissions from coal utilisation and the handling impact and utilisation of coal waste Explores emerging and future issues around industrial coal utilization Highlights coal resources production and use in established markets as well as emerging markets such as Brazil the Russian Federation India Indonesia and China

**Ultra-Supercritical Coal Power Plants** Dongke Zhang FTSE,2013-08-31 The continued use of coal as a means of generating electricity and an increasing demand for cleaner more efficient energy production has led to advances in power plant technology Ultra supercritical coal power plants reviews the engineering operation materials and performance of ultra supercritical coal power plants Following a chapter introducing advanced and ultra supercritical coal power plants part one goes on to explore the operating environments materials and engineering of ultra supercritical coal power plants Chapters discuss the impacts of steam conditions on plant materials and operation fuel considerations and burner design and materials and design for boilers working under supercritical steam conditions Chapters in part two focus on improving ultra supercritical coal power plant performance and operability Ash fouling deposition and slagging in ultra supercritical coal power plants are highlighted along with pollution control measures and the estimation management and extension of the life of ultra supercritical power plants Further chapters provide an economic and engineering analysis of a 700 C advanced ultra supercritical pulverised coal power plant and discuss CO2 capture ready ultra supercritical coal power plants Ultra supercritical coal power plants is a comprehensive technical reference for power plant operators and engineers high temperature materials scientists professionals in the power industry who require an understanding of ultra supercritical coal power plants and researchers and academics interested in the field Provides a comprehensive reference on the developments materials design and operation of ultra supercritical power plant Considers the degradation issues affecting this type of plant as well as emissions control and CO2 capture technology improved plant controls critical to improved operation and environmental performance Contains operational assessments for plant safety plant life management and plant economics

<u>Coal Power Plant Materials and Life Assessment</u> A. Shibli,2014-07-24 Due to their continuing role in electricity generation it is important that coal power plants operate as efficiently and cleanly as possible Coal Power Plant Materials and Life Assessment reviews the materials used in coal plants and how they can be assessed and managed to optimize plant operation Part I considers the structural alloys used in coal plants Part II then reviews performance modelling and life assessment techniques explains the inspection and life management approaches that can be adopted to optimize long term

plant operation and considers the technical and economic issues involved in meeting variable energy demands Summarizes key research on coal fired power plant materials their behavior under operational loads and approaches to life assessment and defect management Details the range of structural alloys used in coal power plants and the life assessment techniques applicable to defect free components under operational loads Reviews the life assessment techniques applicable to components containing defects and the approaches that can be adopted to optimize plant operation and new plant and Calcium and Chemical Looping Technology for Power Generation and Carbon Dioxide (CO2) Capture Paul Fennell, Ben Anthony, 2015-05-21 Calcium and Chemical Looping Technology for Power Generation and Carbon Dioxide CO2 Capture reviews the fundamental principles systems oxygen carriers and carbon dioxide carriers relevant to chemical looping and combustion Chapters review the market development economics and deployment of these systems also providing detailed information on the variety of materials and processes that will help to shape the future of CO2 capture ready power plants Reviews the fundamental principles systems oxygen carriers and carbon dioxide carriers relevant to calcium and chemical looping Provides a lucid explanation of advanced concepts and developments in calcium and chemical looping high pressure systems and alternative CO2 carriers Presents information on the market development economics and deployment of these systems Managing Nuclear Projects Jas Devgun, 2013-08-31 In addition to the nuclear power industry the nuclear field has extensive projects and activities in the areas of research reactors medical isotope production decommissioning and remediation of contaminated sites Managing nuclear projects focuses on the management aspects of nuclear projects in a wide range of areas with emphasis on process requirements and lessons learned Part one provides a general overview of the nuclear industry including basic principles for managing nuclear projects nuclear safety culture management of worker risk training and management of complex projects Part two focuses on managing reactor projects with discussion on a variety of topics including management of research reactor projects medical radioisotope production power reactor modifications power uprates outage management and management of nuclear related R D Chapters in part three highlight the areas of radioactive waste and spent fuel management reactor decommissioning and remediation of radioactively contaminated sites Finally part four explores regulation guidance and emergency management in the nuclear industry Chapters discuss quality assurance and auditing programs licensing procedures for nuclear installations emergency preparedness management of nuclear crises and international nuclear cooperation With its distinguished editor and contributors Managing Nuclear Projects is a valuable resource for project managers plant managers engineers regulators training professionals consultants and academics Examines the basic principles of managing nuclear projects focussing on processes and requirements Discusses the management of reactor projects Explores regulation guidance and emergency management in the nuclear Geothermal Power Generation Ronald DiPippo, 2016-05-25 Geothermal Power Generation Developments and industry Innovation provides an update to the advanced energy technologies that are urgently required to meet the challenges of

economic development climate change mitigation and energy security As geothermal resources are considered renewable and can be used to generate baseload electricity while producing very low levels of greenhouse gas emissions they can play a key role in future energy needs This book edited by a highly respected expert provides a comprehensive overview of the major aspects of geothermal power production The chapters contributed by specialists in their respective areas cover resource discovery resource characterization energy conversion systems and design and economic considerations The final section provides a range of fascinating case studies from across the world ranging from Larderello to Indonesia Users will find this to be an essential text for research and development professionals and engineers in the geothermal energy industry as well as postgraduate researchers in academia who are working on geothermal energy Provides readers with a comprehensive and systematic overview of geothermal power generation Presents an update to the advanced energy technologies that are urgently required to meet the challenges of economic development climate change mitigation and energy security Edited by a world authority in the field with chapters contributed by experts in their particular areas Includes comprehensive case studies from across the world ranging from Larderello to Indonesia The Performance of Photovoltaic (PV) Systems Nicola Pearsall, 2016-10-15 The Performance of Photovoltaic PV Systems Modelling Measurement and Assessment explores the system lifetime of a PV system and the energy output of the system over that lifetime The book concentrates on the prediction measurement and assessment of the performance of PV systems allowing the reader to obtain a thorough understanding of the performance issues and progress that has been made in optimizing system performance Provides unique insights into the performance of photovoltaic systems Includes comprehensive and systematic coverage of a fascinating area in energy Written by an expert team of authors and a respected editor **Uranium for Nuclear Power** Ian Hore-Lacv.2016-02-19 Uranium for Nuclear Power Resources Mining and Transformation to Fuel discusses the nuclear industry and its dependence on a steady supply of competitively priced uranium as a key factor in its long term sustainability A better understanding of uranium ore geology and advances in exploration and mining methods will facilitate the discovery and exploitation of new uranium deposits The practice of efficient safe environmentally benign exploration mining and milling technologies and effective site decommissioning and remediation are also fundamental to the public image of nuclear power This book provides a comprehensive review of developments in these areas Provides researchers in academia and industry with an authoritative overview of the front end of the nuclear fuel cycle Presents a comprehensive and systematic coverage of geology mining and conversion to fuel alternative fuel sources and the environmental and social aspects Written by leading experts in the field of nuclear power uranium mining milling and geological exploration who highlight the best practices needed to ensure environmental safety Handbook of Process Integration (PI) Jiří Jaromír Klemeš, 2013-07-31 Since its first development in the 1970s Process Integration PI has become an important methodology in achieving more energy efficient processes This pioneering handbook brings together the leading scientists and researchers currently

contributing to PI development pooling their expertise and specialist knowledge to provide readers with a comprehensive and up to date guide to the latest PI research and applications After an introduction to the principles of PI the book reviews a wide range of process design and integration topics ranging from heat and utility systems to water recycling waste and hydrogen systems The book considers Heat Integration Mass Integration and Extended PI as well as a series of applications and case studies Chapters address not just operating and capital costs but also equipment design and operability issues through to buildings and supply chains With its distinguished editor and international team of expert contributors Handbook of Process Integration PI is a standard reference work for managers and researchers in all energy intensive industries as well as academics with an interest in them including those designing and managing oil refineries petrochemical and power plants as well as paper pulp steel waste food and drink processors. This pioneering handbook provides a comprehensive and up to date guide to the latest process integration research and applications Reviews a wide range of process design and integration topics ranging from heat and utility systems to water recycling waste and hydrogen systems Chapters also address equipment design and operability issues through to buildings and supply chains Electricity Transmission, Distribution and Storage Systems Ziad Melhem, 2013-10-31 Electricity transmission and distribution systems carry electricity from suppliers to demand sites During transmission materials ageing and performance issues can lead to losses amounting to about 10% of the total generated electricity Advanced grid technologies are therefore in development to sustain higher network efficiency while also maintaining power quality and security Electricity transmission distribution and storage systems presents a comprehensive review of the materials architecture and performance of electricity transmission and distribution networks and the application and integration of electricity storage systems. The first part of the book reviews the fundamental issues facing electricity networks with chapters discussing Transmission and Distribution T D infrastructure reliability and engineering regulation and planning the protection of T D networks and the integration of distributed energy resources to the grid Chapters in part two review the development of transmission and distribution system with advanced concepts such as FACTS and HVDC as well as advanced materials such as superconducting material and network components This coverage is extended in the final section with chapters reviewing materials and applications of electricity storage systems for use in networks for renewable and distributed generation plant and in buildings and vehicles such as batteries and other advanced electricity storage devices With its distinguished editor Electricity transmission distribution and storage systems is an essential reference for materials and electrical engineers energy consultants T D systems designers and technology manufacturers involved in advanced transmission and distribution Presents a comprehensive review of the materials architecture and performance of electricity transmission and distribution networks Examines the application and integration of electricity storage systems Reviews the fundamental issues facing electricity networks and examines the development of transmission and distribution systems Pervaporation, Vapour Permeation and

Membrane Distillation Angelo Basile, Alberto Figoli, Mohamed Khayet, 2015-02-07 Vapour permeation and membrane distillation are two emerging membrane technologies for the production of vapour as permeate which in addition to well established pervaporation technology are of increasing interest to academia and industry As efficient separation and concentration processes they have high potential for use in the energy water chemical food and pharmaceutical sectors Part One begins by covering the fundamentals preparation and characterization of pervaporation before going on to outline the associated systems and applications State of the art uses future trends and next generation pervaporation are then discussed Part Two then explores the preparation characterization systems and applications of membranes for vapour permeation followed by modelling and the new generation of vapour permeation membranes Finally Part Three outlines the fundamentals of membrane distillation and its applications in integrated systems before the book concludes with a view of the next generation Explores three emerging membrane technologies that produce vapour as a permeate Looks at the fundamentals applications state of the art uses and next generation of each technology Provides an authoritative guide for chemical engineers and academic researchers interested in membrane technologies for desalination process water steam treatment water purification VOCs removal and other aspects of pollution control industrial process chemistry renewable energy production or separation and concentration in the food pharmaceutical industries Electrical Drives for Direct Drive Renewable Energy Systems Markus Mueller, Henk Polinder, 2013-03-25 Wind turbine gearboxes present major reliability issues leading to great interest in the current development of gearless direct drive wind energy systems Offering high reliability high efficiency and low maintenance developments in these direct drive systems point the way to the next generation of wind power and Electrical drives for direct drive renewable energy systems is an authoritative guide to their design development and operation Part one outlines electrical drive technology beginning with an overview of electrical generators for direct drive systems Principles of electrical design for permanent magnet generators are discussed followed by electrical thermal and structural generator design and systems integration A review of power electronic converter technology and power electronic converter systems for direct drive renewable energy applications is then conducted Part two then focuses on wind and marine applications beginning with a commercial overview of wind turbine drive systems and an introduction to direct drive wave energy conversion systems The commercial application of these technologies is investigated via case studies on the permanent magnet direct drive generator in the Zephyros wind turbine and the Archimedes Wave Swing AWS direct drive wave energy pilot plant Finally the book concludes by exploring the application of high temperature superconducting machines to direct drive renewable energy systems With its distinguished editors and international team of expert contributors Electrical drives for direct drive renewable energy systems provides a comprehensive review of key technologies for anyone involved with or interested in the design construction operation development and optimisation of direct drive wind and marine energy systems An authorative guide to the design development and operation of gearless

direct drives Discusses the principles of electrical design for permanent magnet generators and electrical thermal and structural generator design and systems integration Investigates the commercial applications of wind turbine drive systems

**Modern Gas Turbine Systems** Peter Jansohn, 2013-08-31 Modern gas turbine power plants represent one of the most efficient and economic conventional power generation technologies suitable for large scale and smaller scale applications Alongside this gas turbine systems operate with low emissions and are more flexible in their operational characteristics than other large scale generation units such as steam cycle plants Gas turbines are unrivalled in their superior power density power to weight and are thus the prime choice for industrial applications where size and weight matter the most Developments in the field look to improve on this performance aiming at higher efficiency generation lower emission systems and more fuel flexible operation to utilise lower grade gases liquid fuels and gasified solid fuels biomass Modern gas turbine systems provides a comprehensive review of gas turbine science and engineering The first part of the book provides an overview of gas turbine types applications and cycles Part two moves on to explore major components of modern gas turbine systems including compressors combustors and turbogenerators Finally the operation and maintenance of modern gas turbine systems is discussed in part three The section includes chapters on performance issues and modelling the maintenance and repair of components and fuel flexibility Modern gas turbine systems is a technical resource for power plant operators industrial engineers working with gas turbine power plants and researchers scientists and students interested in the field Provides a comprehensive review of gas turbine systems and fundamentals of a cycle Examines the major components of modern systems including compressors combustors and turbines Discusses the operation and maintenance of component parts

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