



# Concentrating solar power technology

Principles, developments  
and applications

Edited by Keith Lovegrove and Wes Stein

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

**Ian Pickup**

## **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

**Concentrated Solar Thermal Energy Technologies** Laltu Chandra,Ambesh Dixit,2017-10-04 The proceedings entitled Concentrated Solar Thermal Technologies Recent Trends and Applications includes the peer reviewed selected papers those are presented during NCSTET 2016 The sub topics under concentrated solar thermal technologies and applications included in the book are Solar Field Receiver and Heat Exchanger Coating Thermal Energy Storage Cooling Process Heat and Smart Grid and Policy Research The domains mentioned cover topics from resource assessment collection to conversion of solar energy for applications like heating cooling and electricity The proceedings also include invited lectures from domain experts The edited work will be useful for beginners and for the advanced level researchers in the field of concentrated solar thermal

technologies and their applications     **Solar Thermochemistry** ,2021-12-04 Advances in Chemical Engineering Volume 58  
in this long running serial highlights new advances in the field with this new volume presenting interesting and timely  
chapters written by an international board of authors Provides the authority and expertise of leading contributors from an  
international board of authors Presents the latest release in the Advances in Chemical Engineering series     **A**

**Polygeneration Process Concept for Hybrid Solar and Biomass Power Plant** Umakanta Sahoo,2018-08-03 This is the  
most comprehensive and in depth study of the theory and practical applications of a new and groundbreaking method for the  
energy industry to go green with renewable and alternative energy sources The global warming phenomenon as a significant  
sustainability issue is gaining worldwide support for development of renewable energy technologies The term polygeneration  
is referred to as an energy supply system which delivers more than one form of energy to the final user For example  
electricity cooling and desalination can be delivered from a polygeneration process The polygeneration process in a hybrid  
solar thermal power plant can deliver electricity with less impact on the environment compared to a conventional fossil fuel  
based power generating system It is also THE next generation energy production technique with the potential to overcome  
the undesirable intermittence of renewable energy systems In this study the polygeneration process simultaneous production  
of power vapor absorption refrigeration VAR cooling and multi effect humidification and dehumidification MEHD desalination  
system from different heat sources in hybrid solar biomass HSB system with higher energy efficiencies energy and exergy  
primary energy savings PES and payback period are investigated focusing on several aspects associated with hybrid solar  
biomass power generation installations such as wide availability of biomass resources and solar direct normal irradiance DNI  
and other technologies Thermodynamic evaluation energy and exergy of HSB power has also been investigated along with  
the VAR cooling system the modelling simulation optimization and cost analysis of the polygeneration hybrid solar biomass  
system all accompanied by multiple case studies and examples for practical applications This volume provides the researcher  
student and engineer with the intellectual tool needed for understanding new ideas in this rapidly emerging field The book is  
also intended to serve as a general source and reference book for the professional consultant designer contractor etc who is  
working in the field of solar thermal biomass power plant polygeneration cooling and process heat It is a must have for  
anyone working in this field

**Parabolic Solar Trough Collector** Oveepsa Chakraborty,Biplab Das,2025-12-22 This book  
presents a comprehensive exploration of solar energy sources with a particular emphasis on comparing them to fossil fuels  
regarding their impact on global warming It covers various aspects of solar energy power generation in practice including  
details about the sun such as the solar constant different types of solar radiation solar time and the direction of beam  
radiation Additionally the book delves into the thermal performance of different types of solar concentrating collectors  
focusing specifically on the fundamental principles of parabolic solar trough collectors Drawing upon historical contexts it  
examines the detailed evolution of these collectors in terms of thermal and optical performance and it addresses techniques

developed to tackle challenges such as non uniform heat flux distribution on the receiver tube s outermost surface **Soft Computing in Renewable Energy Technologies** Najib El Ouanjli,Mahmoud A. Mossa,Mariya Ouaissa, Sanjeevikumar Padmanaban,Said Mahfoud,2024-10-10 This book addresses and disseminates state of the art research and development in the applications of soft computing techniques for renewable energy systems It covers topics such as solar energy wind energy and solar concentrator technologies as well as building systems and power generation systems In all these areas applications of soft computing methods such as artificial neural networks genetic algorithms particle swarm optimization cuckoo search fuzzy logic and a combination of these called hybrid systems are included This book is a source for students interested in the fields of renewable energy and the application of the soft computing In addition our book can be considered as a reference for researchers and academics since it will include applications of soft computing in different renewable energy systems **Sustainable Utility Systems** Petar Sabev Varbanov,Jiří Škorpík,Jiří Pospíšil,Jiří Jaromír Klemeš,2020-12-07 This book provides a thorough guidance on maximizing the performance of utility systems in terms of sustainability It covers general structure typical components and efficiency trends and applications such as top level analysis for steam pricing and selection of processes for improved heat integration Examples are provided to illustrate the discussed models and methods to give sufficient learning experience for the reader **Social Life Cycle Assessment** Subramanian Senthilkannan Muthu,2018-12-08 This book highlights the Social Life Cycle Assessment SLCA of the energy and textile sectors It also presents a range of models indices impact categories etc for SLCA that are currently being developed for industrial applications Though SLCA was introduced in 2010 it is still relatively new compared to environmental life cycle assessment ELCA **Concentrated Solar Power Systems** Bellamkonda Pragathi,D. P. Kothari,2025-02-19 Follow the performance assessment tools and methods currently used for concentrated solar power technology CSP in this unique single source overview The search for renewable energy sources and methods for harnessing them is perhaps the most significant challenge of the twenty first century which faces the potentially existential crises of global climate change Concentrated solar power or CSP has the potential to revolutionize energy production Its integration of thermal energy and its capacity to work with traditional power generation cycles make it an ideal tool for a newly sustainable world Concentrated Solar Power Systems is an advanced level book offering both theoretical and practical perspectives on CSP Its thorough overview of this technology includes the foundational scientific principles system design and development and growing applications It offers a one stop source for the performance assessment tools and methods currently deployed in the area of concentrated solar power Readers will also find Case studies throughout showing CSP harnessed to meet real energy needs Detailed discussion of topics including site selection feasibility analysis environmental assessments and more Analysis of specific technologies including linear Fresnel reflectors parabolic troughs concentrating photovoltaic systems and many others Concentrated Solar Power Systems is ideal for students and researchers involved or interested in the design production development

optimization and application of CSP technology

## **The Performance of Concentrated Solar Power (CSP) Systems**

Peter Heller, 2017-05-15 The Performance of Concentrated Solar Power CSP Systems Analysis Measurement and Assessment offers a unique overview of the information on the state of the art of analysis measurement and assessment of the performance of concentrated solar power CSP components and systems in a comprehensive compact and complete manner Following an introductory chapter to CSP systems and the fundamental principles of performance assessment individual chapters explore the component performance of mirrors and receivers Further expert written chapters look at system performance assessment durability testing and solar resource forecasting for CSP systems A final chapter gives an outlook on the actual methods and instruments for performance and durability assessment that are underdevelopment The Performance of Concentrated Solar Power CSP Systems Analysis Measurement and Assessment is an essential reference text for research and development professionals and engineers working on concentrated solar power systems as well as for postgraduate students studying CSP Presents a unique single literature source for a complete overview of the performance assessment tools and methods currently used for concentrated solar power CSP technology Written by a team of experts in the field of CSP Provides information on the state of the art of modeling measurement and assessment of the performance of CSP components and systems in a comprehensive compact and complete manner

## [Handbook Of Solar Thermal Technologies: Concentrating Solar Power And Fuels \(In 3 Volumes\)](#)

, 2022-08-11 The three volume handbook showcases the state of the art in the use of concentrated sunlight to produce electricity industrial process heat renewable fuels including hydrogen and low carbon synthesis gas and valuable chemical commodities The handbook illustrates the value and diversity of applications for concentrating solar power to contribute to the expanding decarbonization of multiple cross cutting energy sectors Volume 1 Concentrating Solar Thermal Power provides an overview of key technologies principles and challenges of concentrating solar power CSP as well as the use of concentrating solar thermal for process heating and district markets The ten chapters of this volume provide the reader with the technical background on the solar resource for concentrating solar thermal the principles and design of concentrating optics and descriptions of state of the art and emerging solar collector and receiver technologies thermal storage and thermal to electric conversion and power cycles for CSP It also contains a comprehensive summary of operations and maintenance requirements for CSP plants and commercial CSP plants and markets around the world Volume 2 Solar Thermochemical Processes and Products covers the use of concentrated solar radiation as the heat source to drive endothermic chemical reactions to produce renewable fuels and valuable chemical commodities equivalently storing solar energy in chemical bonds The thermodynamic underpinnings of a number of approaches to produce fuel and results of demonstrations of solar thermochemical reactors for these processes at prototype scale are presented Processes presented include thermochemical metal oxide reduction oxidation cycles to split water and carbon dioxide solar chemical looping reformation of methane to produce synthesis gas high temperature electrochemistry and gasification of biomass

Research on the thermochemical storage for CSP and high temperature production of cement and ammonia to illustrate the use concentrated solar energy to produce valuable chemical products are also included Volume 3 contains reprinted archival papers to support and supplement the material in Volumes 1 and 2 These papers provide background information on the economics and alternative use cases of CSP not covered in Volume 1 and expand on the material related to the chapter topics presented in Volume 2 Potential commercialization such as prototype and demonstration projects are highlighted The papers are intended as a starting point for a more in depth study of the topics Concentrating Solar Power IEA.,2010 The emerging technology known as concentrating solar power or CSP holds much promise for countries with plenty of sunshine and clear skies For CSP to claim its share of the coming energy revolution concerted action is required over the next ten years by scientists industry governments financing institutions and the public This roadmap is intended to help chart the course to broad development and deployment of CSP Subject Guide to Books in Print ,1991 The Future of Concentrating Solar Power Technologies Paul Breeze,2011 Although the global capacity remains small the potential is enormous and solar power is expected to contribute significantly to electricity production by the middle of the century

**Concentrating Solar Power** ,2001 This fact sheet explains how concentrating solar power technology works and the three types of systems in development today trough dish and central receiver Concentrating Solar Power Burt J. Alexander,2012 As the world looks for low carbon sources of energy solar power stands out as the single most abundant energy resource on Earth This book focuses on the capacity value of concentrating solar power plants and presents detailed information about solar resource data and the resulting data products needed for each stage of the concentrating solar power project from initial site selection to systems operations It also examines the degree to which concentrating solar power may be complimentary to solar photovoltaic via its use of thermal energy storage **Concentrating Solar Power** ,1998

**New Receiver Development for Concentrating Solar Power** Utkarsh Agarwal,Jeremy J. Brouillet,Michelle Burns,Emil A. Cashin,Chloe M. Ruiz-Funes,Scott A. Snyder,Cook Engineering Design Center,Thayer School of Engineering,2013

Concentrating Solar Power International Renewable Energy Agency IRENA,2013 Historical Development of Concentrating Solar Power Technologies to Generate Clean Electricity Efficiently - A Review ,2015

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