



# Wind energy systems

Optimising design and  
construction for safe  
and reliable operation

Edited by John D. Sørensen and Jens N. Sørensen

**Wind Energy Systems Optimising Design And  
Construction For Safe And Reliable Operation Woodhead  
Publishing Series In Energy**

**Yotaro Hatamura, Seiji Abe, Masao  
Fuchigami, Naoto Kasahara, Kenji Iino**



## **Wind Energy Systems Optimising Design And Construction For Safe And Reliable Operation Woodhead Publishing Series In Energy:**

*Wind Energy Systems* John Dalsgaard Sørensen, Jens N Sørensen, 2010-12-20 Large scale wind power generation is one of the fastest developing sources of renewable energy and already makes a substantial contribution to power grids in many countries worldwide With technology maturing the challenge is now to increase penetration and optimise the design construction and performance of wind energy systems Fundamental issues of safety and reliability are paramount in this drive to increase capacity and efficiency Wind energy systems Optimising design and construction for safe and reliable operation provides a comprehensive review of the latest developments in the design construction and operation of large scale wind energy systems including in offshore and other problematic environments Part one provides detailed coverage of wind resource assessment and siting methods relevant to wind turbine and wind farm planning as well as aeroelastics aerodynamics and fatigue loading that affect the safety and reliability of wind energy systems This coverage is extended in part two where the design and development of individual components is considered in depth from wind turbine rotors to drive train and control systems and on to tower design and construction Part three explores operation and maintenance issues such as reliability and maintainability strategies and condition monitoring systems before discussing performance assessment and optimisation routes for wind energy systems in low wind speed environments and cold climates Part four reviews offshore wind energy systems development from the impact of environmental loads such as wind waves and ice to site specific construction and integrated wind farm planning and of course the critical issues and strategies for offshore operation and maintenance With its distinguished editors and international teams of contributors Wind energy systems is a standard reference for wind power engineers technicians and manufacturers as well as researchers and academics involved in this expanding field Reviews the latest developments in the design construction and operation of large scale wind energy systems Offers detailed coverage of wind resource assessment and siting methods relevant to wind turbine and wind farm planning Explores operation and maintenance issues such as reliability and maintainability strategies and condition monitoring systems

**Developments and Innovation in Carbon Dioxide (CO<sub>2</sub>) Capture and Storage Technology** M. Mercedes Maroto-Valer, 2010-07-13 Carbon dioxide CO<sub>2</sub> capture and storage CCS is the one advanced technology that conventional power generation cannot do without CCS technology reduces the carbon footprint of power plants by capturing and storing the CO<sub>2</sub> emissions from burning fossil fuels and biomass This volume provides a comprehensive reference on the state of the art research development and demonstration of carbon storage and utilisation covering all the storage options and their environmental impacts It critically reviews geological terrestrial and ocean sequestration including enhanced oil and gas recovery as well as other advanced concepts such as industrial utilisation mineral carbonation biofixation and photocatalytic reduction Foreword written by Lord Oxburgh Climate Science Peer Comprehensively examines the different

methods of storage of carbon dioxide CO<sub>2</sub> and the various concepts for utilisation Reviews geological sequestration of CO<sub>2</sub> including coverage of reservoir sealing and monitoring and modelling techniques used to verify geological sequestration of CO<sub>2</sub>

**Advanced District Heating and Cooling (DHC) Systems** Robin Wiltshire, 2015-08-31 Advanced District Heating and Cooling DHC Systems presents the latest information on the topic providing valuable information on the distribution of centrally generated heat or cold energy to buildings usually in the form of space heating cooling and hot water As DHC systems are more efficient and less polluting than individual domestic or commercial heating and cooling systems the book provides an introduction to DHC including its potential contribution to reducing carbon dioxide emissions then reviews thermal energy generation for DHC including fossil fuel based technologies those based on renewables and surplus heat valorization Final sections address methods to improve the efficiency of DHC Gives a comprehensive overview of DHC systems and the technologies and energy resources utilized within these systems Analyzes the various methods used for harnessing energy to apply to DHC systems Ideal resource for those interested in district cooling teleheating heat networks distributed heating thermal energy cogeneration combined heat and power and CHP Reviews the application of DHC systems in the field including both the business model side and the planning needed to implement these systems

[The Biogas Handbook](#) Arthur Wellinger, J. Patrick Murphy, David Baxter, 2013-02-19 The biogas handbook Science production and applications provides a comprehensive and systematic guide to the development and deployment of biogas supply chains and technology

**Geological Storage of Carbon Dioxide (CO<sub>2</sub>)** J Gluyas, S Mathias, 2013-11-23 Geological storage and sequestration of carbon dioxide in saline aquifers depleted oil and gas fields or unminable coal seams represents one of the most important processes for reducing humankind's emissions of greenhouse gases Geological storage of carbon dioxide CO<sub>2</sub> reviews the techniques and wider implications of carbon dioxide capture and storage CCS Part one provides an overview of the fundamentals of the geological storage of CO<sub>2</sub> Chapters discuss anthropogenic climate change and the role of CCS the modelling of storage capacity injectivity migration and trapping of CO<sub>2</sub> the monitoring of geological storage of CO<sub>2</sub> and the role of pressure in CCS Chapters in part two move on to explore the environmental social and regulatory aspects of CCS including CO<sub>2</sub> leakage from geological storage facilities risk assessment of CO<sub>2</sub> storage complexes and public engagement in projects and the legal framework for CCS Finally part three focuses on a variety of different projects and includes case studies of offshore CO<sub>2</sub> storage at Sleipner natural gas field beneath the North Sea the CO<sub>2</sub>CRC Otway Project in Australia on shore CO<sub>2</sub> storage at the Ketzin pilot site in Germany and the K12 B CO<sub>2</sub> injection project in the Netherlands Geological storage of carbon dioxide CO<sub>2</sub> is a comprehensive resource for geoscientists and geotechnical engineers and academics and researches interested in the field Reviews the techniques and wider implications of carbon dioxide capture and storage CCS An overview of the fundamentals of the geological storage of CO<sub>2</sub> discussing the modelling of storage capacity injectivity migration and trapping of CO<sub>2</sub> among other subjects Explores the environmental social and regulatory aspects of CCS

including CO<sub>2</sub> leakage from geological storage facilities risk assessment of CO<sub>2</sub> storage complexes and the legal framework for CCS

*Geothermal Power Generation* Ronald DiPippo, 2016-05-25 *Geothermal Power Generation Developments and 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

**Sustainable Energy from Salinity Gradients** Andrea Cipollina, Giorgio Micale, 2016-03-01 Salinity gradient energy also known as blue energy and osmotic energy is the energy obtainable from the difference in salt concentration between two feed solutions typically sea water and river water It is a large scale renewable resource that can be harvested and converted to electricity Efficient extraction of this energy is not straightforward however *Sustainable Energy from Salinity Gradients* provides a comprehensive review of resources technologies and applications in this area of fast growing interest Key technologies covered include pressure retarded osmosis reverse electrodialysis and accumulator mixing Environmental and economic aspects are also considered together with the possible synergies between desalination and salinity gradient energy technologies *Sustainable Energy from Salinity Gradients* is an essential text for R D professionals in the energy water industry interested in salinity gradient power and researchers in academia from post graduate level upwards For more than ten years the Editors have been sharing substantial research activities in the fields of renewable energy and desalination successfully participating to a number of European Union research projects and contributing to the relevant scientific literature with more than 100 papers and 2 books on Desalination technologies and their coupling with Renewable Energy They are intensely working in the field of Salinity Gradient Power carrying out research with specific focus on open loop and closed loop reverse electrodialysis and pressure retarded osmosis Covers applications of pressure retarded osmosis reverse electrodialysis and capacitive mixing for salinity gradient power in one convenient volume Presents the environmental

aspects and economics of salinity gradient energy Explores possible synergies between desalination and salinity gradient energy

**Lignocellulose Biorefinery Engineering** Hongzhang Chen, 2015-03-03 Biomass resources and their refining are key research topics internationally as alternatives to fossil fuel resources and oil refining This book explores the heterogeneous nature of lignocellulosic biomass which restricts its use as a raw material and describes the theoretical basis of the lignocellulose refinery It puts forward the theory of the integrated biomass refinery system which produces multiple products including biofuels biomaterials biochemicals food and feed based on careful fractionation of the raw material Chapter 1 introduces the significance and development of lignocellulose biorefining Chapter 2 gives the theoretical basis of lignocellulose biorefinery engineering Chapters 3 to 6 describe in detail biomass refinery engineering from the perspectives of feedstocks conversions products and processes respectively Models of integrated industrial biomass refinery chains are presented in Chapter 7 Finally Chapter 8 considers future trends in lignocellulose biorefining Explores mechanisms of selective fractionation of biomass based on biomass structural characteristics and product requirements Addresses biological physical and chemical conversion technologies as well as combinations of different methods based on the biomass material characteristics This thorough exploration of lignocellulose biorefining is written by an expert from a key research institute in this field

**Reprocessing and Recycling of Spent Nuclear Fuel** Robin Taylor, 2015-04-18 Reprocessing and Recycling of Spent Nuclear Fuel presents an authoritative overview of spent fuel reprocessing considering future prospects for advanced closed fuel cycles Part One introduces the recycling and reprocessing of spent nuclear fuel reviewing past and current technologies the possible implications of Generation IV nuclear reactors and associated safety and security issues Parts Two and Three focus on aqueous based reprocessing methods and pyrochemical methods while final chapters consider the cross cutting aspects of engineering and process chemistry and the potential for implementation of advanced closed fuel cycles in different parts of the world Expert introduction to the recycling and reprocessing of spent nuclear fuel Detailed overview of past and current technologies the possible implications of Generation IV nuclear reactors and associated safety and security issues A lucid exploration of aqueous based reprocessing methods and pyrochemical methods

*Biolubricants* Jan C.J. Bart, Emanuele Gucciardi, Stefano Cavallaro, 2012-12-18 Lubricants are essential in engineering however more sustainable formulations are needed to avoid adverse effects on the ecosystem Bio based lubricant formulations present a promising solution Biolubricants Science and technology is a comprehensive interdisciplinary and timely review of this important subject Initial chapters address the principles of lubrication before systematically reviewing fossil and bio based feedstock resources for biodegradable lubricants Further chapters describe catalytic bio chemical functionalisation processes for transformation of feedstocks into commercial products product development relevant legislation life cycle assessment major product groups and specific performance criteria in all major applications Final chapters consider markets for biolubricants issues to consider when selecting and using a lubricant lubricant disposal and future trends With its distinguished authors

Biolubricants Science and technology is a comprehensive reference for an industrial audience of oil formulators and lubrication engineers as well as researchers and academics with an interest in the subject It provides an essential overview of scientific and technological developments enabling the cost effective improvement of biolubricants something that is crucial for the green future of the lubricant industry A comprehensive interdisciplinary and timely review of bio based lubricant formulations Addresses the principles of lubrication Reviews fossil and bio based feedstock resources for biodegradable lubricants

**Calcium and Chemical Looping Technology for Power Generation and Carbon Dioxide (CO<sub>2</sub>) Capture** Paul Fennell,Ben Anthony,2015-05-21 Calcium and Chemical Looping Technology for Power Generation and Carbon Dioxide CO<sub>2</sub> 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 CO<sub>2</sub> 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 CO<sub>2</sub> carriers Presents information on the market development economics and deployment of these systems

**Nuclear Decommissioning** Michele Laraia,2012-02-21 Once a nuclear installation has reached the end of its safe and economical operational lifetime the need for its decommissioning arises Different strategies can be employed for nuclear decommissioning based on the evaluation of particular hazards and their attendant risks as well as on the analysis of costs of clean up and waste management This allows for decommissioning either soon after permanent shutdown or perhaps a long time later the latter course allowing for radioactivity levels to drop in any activated or contaminated components It is crucial for clear processes and best practices to be applied in decommissioning such installations and sites particular where any significant health and environmental risks exist This book critically reviews the nuclear decommissioning processes and technologies applicable to nuclear power plants and other civilian nuclear facilities Part one focuses on the fundamental planning issues in starting a nuclear decommissioning process from principles and safety regulations to financing and project management Part two covers the execution phase of nuclear decommissioning projects detailing processes and technologies such as dismantling decontamination and radioactive waste management as well as environmental remediation site clearance and reuse Finally part three details international experience in the decommissioning of nuclear applications including the main nuclear reactor types and nuclear fuel cycle facilities as well as small nuclear facilities and legacy nuclear waste sites Critically reviews nuclear decommissioning processes and technologies applicable to nuclear power plants and other civilian nuclear facilities Discusses the fundamental planning issues in starting a nuclear decommissioning process Considers the execution phase of nuclear decommissioning projects including dismantling decontamination and radioactive waste management as well as environmental remediation site clearance and

reuse     Advanced Power Plant Materials, Design and Technology Dermot Roddy, 2010-05-24 Fossil fuel power plants account for the majority of worldwide power generation Increasing global energy demands coupled with issues of ageing and inefficient power plants have led to new power plant construction programmes As cheaper fossil fuel resources are exhausted and emissions criteria are tightened utilities are turning to power plants designed with performance in mind to satisfy requirements for improved capacity efficiency and environmental characteristics Advanced power plant materials design and technology provides a comprehensive reference on the state of the art of gas fired and coal fired power plants their major components and performance improvement options Part one critically reviews advanced power plant designs which target both higher efficiency and flexible operation including reviews of combined cycle technology and materials performance issues Part two reviews major plant components for improved operation including advanced membrane technology for both hydrogen H<sub>2</sub> and carbon dioxide CO<sub>2</sub> separation as well as flue gas handling technologies for improved emissions control of sulphur oxides SO<sub>x</sub> nitrogen oxides NO<sub>x</sub> mercury ash and particulates The section concludes with coverage of high temperature sensors and monitoring and control technology that are essential to power plant operation and performance optimisation Part three begins with coverage of low rank coal upgrading and biomass resource utilisation for improved power plant fuel flexibility Routes to improve the environmental impact are also reviewed with chapters detailing the integration of underground coal gasification and the application of carbon dioxide CO<sub>2</sub> capture and storage Finally improved generation performance is reviewed with coverage of syngas and hydrogen H<sub>2</sub> production from fossil fuel feedstocks With its distinguished international team of contributors Advanced power plant materials design and technology is a standard reference for all power plant engineers and operators as well as to academics and researchers in this field Provides a comprehensive reference on the state of the art gas fired and coal fired power plants their major components and performance improvement options Examines major plant components for improved operation as well as flue gas handling technologies for improved emissions control Routes to improve environmental impact are discussed with chapters detailing the integration of underground coal gasification     Power Plant Life Management and Performance Improvement John E Oakey, 2011-09-28 Coal and gas based power plants currently supply the largest proportion of the world's power generation capacity and are required to operate to increasingly stringent environmental standards Higher temperature combustion is therefore being adopted to improve plant efficiency and to maintain net power output given the energy penalty that integration of advanced emissions control systems cause However such operating regimes also serve to intensify degradation mechanisms within power plant systems potentially affecting their reliability and lifespan Power plant life management and performance improvement critically reviews the fundamental degradation mechanisms that affect conventional power plant systems and components as well as examining the operation and maintenance approaches and advanced plant rejuvenation and retrofit options that the industry are applying to ensure overall plant performance improvement and life management



Part one initially reviews plant operation issues including fuel flexibility condition monitoring and performance assessment Parts two three and four focus on coal boiler plant gas turbine plant and steam boiler and turbine plant respectively reviewing environmental degradation mechanisms affecting plant components and their mitigation via advances in materials selection and life management approaches such as repair refurbishment and upgrade Finally part five reviews issues relevant to the performance management and improvement of advanced heat exchangers and power plant welds With its distinguished editor and international team of contributors Power plant life management and performance improvement is an essential reference for power plant operators industrial engineers and metallurgists and researchers interested in this important field Provides an overview of the improvements to plant efficiency in coal and gas based power plants Critically reviews the fundamental degradation mechanisms that affect conventional power plant systems and components noting mitigation routes alongside monitoring and assessment methods Addresses plant operation issues including fuel flexibility condition monitoring and performance assessment

**Structural Alloys for Power Plants** A. Shirzadi, S. Jackson, 2014-07-30 Current fleets of conventional and nuclear power plants face increasing hostile environmental conditions due to increasingly high temperature operation for improved capacity and efficiency and the need for long term service Additional challenges are presented by the requirement to cycle plants to meet peak load operation This book presents a comprehensive review of structural materials in conventional and nuclear energy applications Opening chapters address operational challenges and structural alloy requirements in different types of power plants The following sections review power plant structural alloys and methods to mitigate critical materials degradation in power plants

**The 2011 Fukushima Nuclear Power Plant Accident** Yotaro Hatamura, Seiji Abe, Masao Fuchigami, Naoto Kasahara, Kenji Iino, 2014-11-28 In March 2011 the Fukushima nuclear power plant NPP in Japan was hit by an earthquake and subsequent tsunami which resulted in the release of significant amounts of radioactive material The incident led to the suspension of nuclear programmes by a number of countries This book provides a definitive account of the accident Outlines the main sequence of events of the 2011 Fukushima nuclear power plant accident considers the responses of central and local government and evaluates the response of the plant owner TEPCO Describes and assesses the effectiveness of the evacuation process and subsequent decontamination of the site and local area Offers recommendations for improving the safe design and operation of nuclear power plants and considers the future of the Fukushima plant and nuclear power generation in Japan

**Advances in Battery Technologies for Electric Vehicles** Bruno Scrosati, Jürgen Garche, Werner Tillmetz, 2015-05-25 Advances in Battery Technologies for Electric Vehicles provides an in depth look into the research being conducted on the development of more efficient batteries capable of long distance travel The text contains an introductory section on the market for battery and hybrid electric vehicles then thoroughly presents the latest on lithium ion battery technology Readers will find sections on battery pack design and management a discussion of the infrastructure required for

the creation of a battery powered transport network and coverage of the issues involved with end of life management for these types of batteries Provides an in depth look into new research on the development of more efficient long distance travel batteries Contains an introductory section on the market for battery and hybrid electric vehicles Discusses battery pack design and management and the issues involved with end of life management for these types of batteries

**Superconductors in the Power Grid** C. Rey, 2015-04-20 Superconductors offer high throughput with low electric losses and have the potential to transform the electric power grid Transmission networks incorporating cables of this type could for example deliver more power and enable substantial energy savings Superconductors in the Power Grid Materials and Applications provides an overview of superconductors and their applications in power grids Sections address the design and engineering of cable systems and fault current limiters and other emerging applications for superconductors in the power grid as well as case studies of industrial applications of superconductors in the power grid Expert editor from highly respected US government funded research centre Unique focus on superconductors in the power grid Comprehensive coverage

**Small Modular Reactors** Daniel T Ingersoll, 2015-11-20 There is currently significant interest in the development of small modular reactors SMRs for the generation of both electricity and process heat SMRs offer potential benefits in terms of better affordability and enhanced safety and can also be sited more flexibly than traditional nuclear plants Small Modular Reactors Nuclear Power Fad or Future reviews SMR features promises and problems also discussing what lies ahead for reactors of this type The book is organized into three major parts with the first part focused on the role of energy especially nuclear energy for global development It also provides a brief history of SMRs The second major part presents basic nuclear power plant terminology and then discusses in depth the attributes of SMRs that distinguish them from traditional nuclear plants The third and final major section discusses the current interest in SMRs from a customer s perspective and delineates several remaining hurdles that must be addressed to achieve wide spread SMR deployment Provides decision makers in governments business and research with the needed background on small nuclear power and an overview of the current situation Presents a balanced discussion of the many advantages of SMRs and the challenges they face Written by a highly respected expert in the nuclear industry

*Nuclear Facilities* Bill Collum, 2016-10-19 Designing new nuclear facilities is an extraordinarily complex exercise often requiring teams of specialists several hundred strong Nuclear Facilities A Designer s Guide provides an insight into each of the main contributors and shows how the whole design process is drawn together Essential reading for all nuclear professionals those already involved in the industry will gain knowledge that enables them to interact more effectively with colleagues in other disciplines Its wealth of information will assist students and graduates in progressing more rapidly into fully rounded contributors to the nuclear facility design process Whilst those joining nuclear from other industries will find a structured introduction to the nuclear world and discover what differentiates it from other spheres of engineering A single comprehensive text on nuclear facility design

which covers all major aspects of the process Packed full of essential information its complex subject matter is explained in a logical and comprehensible style Valuable to those involved in both new build and decommissioning projects Written by a highly respected expert in the nuclear industry

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