



Power and Energy Series 43

Thermal Power Plant Simulation and Control

Edited by Damian Flynn

Thermal Power Plant Simulation And Control Researchgate

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Carbon Capture Technologies for Gas-Turbine-Based Power Plants Hamidreza Gohari Darabkhani, Hirbod Varasteh, Bahamin Bazooyar, 2022-09-24 Carbon Capture Technologies for Gas Turbine Based Power Plants explores current progress in one of the most capable technologies for carbon capture in gas turbine based power plants. It identifies the primary benefits and shortcomings of oxy fuel combustion CO₂ capture technology compared to other capture technologies such as pre combustion and post combustion capture. This book examines over 20 different oxy combustion turbine oxyturbine power cycles by providing their main operational parameters, thermodynamics and process modelling, energy and exergy analysis and performance evaluation. The conventional natural gas combined cycle NGCC power plant with post combustion capture is used as the base case scenario. The design procedure and operational characteristics of a radial NO_x less oxy fuel gas turbine combustor are presented with CFD simulation and performance analysis of the heat exchanger network and turbomachinery. Overview of oxygen production and air separation units (ASU) and CO₂ compression and purification units (CPU) are also presented and discussed. The most advanced stages of development for the leading oxyturbine power cycles are assessed using techno economic analysis, sensitivity risk assessments and levelized cost of energy (LCOE) and analysing technology readiness level (TRL) and development stages. The book concludes with a road map for the development of future gas turbine based power plants with full carbon capture capabilities using the experiences of the recently demonstrated cycles. Analyzes more than 20 models of oxyturbine power cycles, identifying the main parameters regarding their operation process and performance simulations and energy and exergy analysis. Provides techno economic analysis, TRL sensitivity and risk analysis, LCOE and stages of development for oxy combustion turbine power plants. Presents the design procedure and CFD simulation of a radial NO_x less oxy fuel gas turbine combustor, exploring its influence on heat exchanger network and turbomachinery. Supports practitioners, policymakers and energy industry managers seeking pathways to convert coal fired power plants to gas fired plants with zero CO₂ emission.

Renewable Energy Systems and Sources Mohan Lal Kolhe, 2023-10-31 The book consists of selected and peer reviewed papers from 13th International Conference on Renewable and Clean Energy 2023 which aims to address and deliberate on the latest technical status and recent trends in the research and applications of renewable energy system and sources. RESSs (renewable energy sources) include solar, wind, biomass, fuel cells, hydropower, hydrogen, nuclear, geothermal, etc. The topics covered in the proceedings include energy transformation from renewable energy system (RES) to grid, novel energy conversion studies for RESs, power devices and driving circuits for RESs, control techniques for RESs, grid interactive systems used in hybrid RESs, performance analysis of RESs, hybrid RESSs, renewable energy research and applications for Industries, RESSs for electrical vehicles and components, artificial intelligence and machine learning studies for RESs and applications, computational methods for RESSs, smart grids and RESSs safety and security of RESSs, renewable energy systems in smart cities. This book will be very useful for graduate

students researchers and practicing engineers working in the fields of renewable energy Benchmark Experiments, Development and Needs in Support of Advanced Reactor Design Mark David DeHart, John Darrell Bess, Michael Fleming, Germina Ilas, 2023-08-01 **Highly Efficient Thermal Renewable Energy Systems** Vikas Verma, Sivasakthivel Thangavel, Nitesh Dutt, Ashwani Kumar, Rohitha Weerasinghe, 2024-05-21 The text comprehensively highlights the latest methodologies models techniques and applications along with a description of modeling optimization and experimental works in the energy sector It further explains key concepts such as finite element analysis tools hybrid energy systems mechanical components design and optimization solar coupled systems and vertical heat exchanger This book Discusses the role and integration of solar geothermal and hydrogen based thermal energy storage TES technologies in different sectors for space heating and cooling applications Covers mechanical modeling and optimization of hybrid energy storage systems for performance improvement and focuses on hydrogen production storage and safety measures Explores the integration of IoT and global energy interaction technologies highlighting their potential benefits in driving the transition toward a sustainable and resilient global energy system Explains different aspects of clean technologies such as batteries fuel cells ground energy storage solar thermal system and the role of green hydrogen in decarbonizing sectors like transportation and energy Showcases a clear idea of sustainable development using renewable energy focusing on policymaking challenges in transition from conventional to renewable energy and future directions in energy sector It is primarily written for senior undergraduates and graduate students and academic researchers in the fields of mechanical engineering production engineering industrial engineering and environmental engineering The Water-Food-Energy Nexus I. M. Mujtaba, R. Srinivasan, N. O. Elbashir, 2017-09-11 Exponential growth of the worldwide population requires increasing amounts of water food and energy However as the quantity of available fresh water and energy sources directly affecting cost of food production and transportation diminishes technological solutions are necessary to secure sustainable supplies In direct response to this reality this book focuses on the water energy food nexus and describes in depth the challenges and processes involved in efficient water and energy production and management wastewater treatment and impact upon food and essential commodities The book is organized into 4 sections on water food energy and the future of sustainability highlighting the interplay among these topics The first section emphasizes water desalination water management and wastewater treatment The second section discusses cereal processing sustainable food security bioenergy in food production water and energy consumption in food processing and mathematical modeling for food undergoing phase changes The third section discusses fossil fuels biofuels synthetic fuels renewable energy and carbon capture Finally the book concludes with a discussion of the future of sustainability including coverage of the role of molecular thermodynamics in developing processes and products green engineering in process systems petrochemical water splitting petrochemical approaches to solar hydrogen generation design and operation strategy of energy efficient processes and the sustainability of process supply

chain and enterprise **Sustainable Materials and Systems for Water Desalination** Inamuddin, Anish Khan, 2021-09-30 This edited book explores the most promising and reliable technological developments expected to impact on the next generation of desalination systems The book includes research studies which takes the reader on a fascinating walk through the multidisciplinary world of membrane science applied to water treatment Concerning the ultimate technological advancement the book seeks to investigate how to bridge the gap between the laboratory scale and the applicability to industry

Thermal Power Plant Simulation and Control Damian Flynn, 2003-08-18 An exploration of how advances in computing technology and research can be combined to extend the capabilities and economics of modern power plants The contributors from academia as well as practising engineers illustrate how the various methodologies can be applied to power plant operation

Thermal Power Plants Xingrang Liu, Ramesh Bansal, 2016-08-19 Thermal Power Plants Modeling Control and Efficiency Improvement explains how to solve highly complex industry problems regarding identification control and optimization through integrating conventional technologies such as modern control technology computational intelligence based multiobjective identification and optimization distributed computing and cloud computing with computational fluid dynamics CFD technology Introducing innovative methods utilized in industrial applications explored in scientific research and taught at leading academic universities this book Discusses thermal power plant processes and process modeling energy conservation performance audits efficiency improvement modeling and efficiency optimization supported by high performance computing integrated with cloud computing Shows how to simulate fossil fuel power plant real time processes including boiler turbine and generator systems Provides downloadable source codes for use in CORBA C MATLAB Simulink VisSim Comsol ANSYS and ANSYS Fluent modeling software Although the projects in the text focus on industry automation in electrical power engineering the methods can be applied in other industries such as concrete and steel production for real time process identification control and optimization

Control, Simulation, and Monitoring of Thermal Processes in Power Plants Pawel Madejski, 2023-03-02 This Special Issue aims to cover the recent research results being developed both theoretically and experimentally on the laboratory pilot and industrial scale about thermal processes in power plants This reprint focuses on thermal and flow processes and their impact on highly efficient and low emission electricity generation and heat production in thermal power plants Special attention is given to steam condensers and separators for application in thermal power plants development systems and tools for heat production forecasting in combined heat and power plants presenting such ideas as the negative CO₂ emission gas power plant cycle and production of gas fuels by sewage sludge gasification as well as about methods and techniques for CO₂ capture The research investigation results can find implementation in real scale power technologies such as steam power plants gas power plants nuclear power plants and hybrid power plants based on renewable energy sources

Computer Simulation of Thermal Plant Operations Peter O'Kelly, 2012-11-27 This book describes thermal plant simulation that is dynamic simulation of plants which produce

exchange and otherwise utilize heat as their working medium Directed at chemical mechanical and control engineers involved with operations control and optimization and operator training the book gives the mathematical formulation and use of simulation models of the equipment and systems typically found in these industries The author has adopted a fundamental approach to the subject The initial chapters provide an overview of simulation concepts and describe a suitable computer environment Reviews of relevant numerical computation methods and fundamental thermodynamics are followed by a detailed examination of the basic conservation equations The bulk of the book is concerned with development of specific simulation models Care is taken to trace each model derivation path from the basic underlying physical equations explaining simplifying and restrictive assumptions as they arise and relating the model coefficients to the physical dimensions and physical properties of the working materials Numerous photographs of real equipment complement the text and most models are illustrated by numerical examples based on typical real plant operations

Modelling, Simulation and Control of Thermal Energy Systems Kwang Y. Lee, Damian Flynn, Hui Xie, Li Sun, 2020-11-03 Faced with an ever growing resource scarcity and environmental regulations the last 30 years have witnessed the rapid development of various renewable power sources such as wind tidal and solar power generation The variable and uncertain nature of these resources is well known while the utilization of power electronic converters presents new challenges for the stability of the power grid Consequently various control and operational strategies have been proposed and implemented by the industry and research community with a growing requirement for flexibility and load regulation placed on conventional thermal power generation Against this background the modelling and control of conventional thermal engines such as those based on diesel and gasoline are experiencing serious obstacles when facing increasing environmental concerns Efficient control that can fulfill the requirements of high efficiency low pollution and long durability is an emerging requirement The modelling simulation and control of thermal energy systems are key to providing innovative and effective solutions Through applying detailed dynamic modelling a thorough understanding of the thermal conversion mechanisms can be achieved based on which advanced control strategies can be designed to improve the performance of the thermal energy system both in economic and environmental terms Simulation studies and test beds are also of great significance for these research activities prior to proceeding to field tests This Special Issue will contribute a practical and comprehensive forum for exchanging novel research ideas or empirical practices that bridge the modelling simulation and control of thermal energy systems Papers that analyze particular aspects of thermal energy systems involving for example conventional power plants innovative thermal power generation various thermal engines thermal energy storage and fundamental heat transfer management on the basis of one or more of the following topics are invited in this Special Issue Power plant modelling simulation and control Thermal engines Thermal energy control in building energy systems Combined heat and power CHP generation Thermal energy storage systems Improving thermal comfort technologies Optimization of complex thermal systems Modelling and control of

thermal networks Thermal management of fuel cell systems Thermal control of solar utilization Heat pump control Heat exchanger control

Numerical Simulation for Next Generation Thermal Power Plants Falah Alobaid, 2018-03-29 The book provides highly specialized researchers and practitioners with a major contribution to mathematical models developments for energy systems First dynamic process simulation models based on mixture flow and two fluid models are developed for combined cycle power plants pulverised coal fired power plants concentrated solar power plant and municipal waste incineration Operation data obtained from different power stations are used to investigate the capability of dynamic models to predict the behaviour of real processes and to analyse the influence of modeling assumptions on simulation results Then a computational fluid dynamics CFD simulation programme so called DEMEST is developed Here the fluid solid particle particle and particle wall interactions are modeled by tracking all individual particles To this purpose the deterministic Euler Lagrange Discrete Element Method DEM is applied and further improved An emphasis is given to the determination of inter phase values such as volumetric void fraction momentum and heat transfers using a new procedure known as the offset method and to the particle grid method allowing the refinement of the grid resolution independently from particle size Model validation is described in detail Moreover thermochemical reaction models for solid fuel combustion are developed based on quasi single phase two fluid and Euler Lagrange MP PIC models Measurements obtained from actual power plants are used for validation and comparison of the developed numerical models

Modelling, Simulation and Control of Thermal Energy Systems Kwang Y. Lee, Damian Flynn, Hui Xie, Li Sun, 2020 Faced with an ever growin *Long-term Dynamic Simulation* P.K. Kar, A. Yan, M. Berhe, Ontario Hydro, Central Research Institute of Electric Power Industry, Electric Power Research Institute, 1992

Thermal Power Plants - Volume I Robin A. Chaplin, 2009-11-30 This book has been derived from the work of several professors in the nuclear and power industry all of whom have been directly involved with the industry as managers or consultants The text has been written as educational material and many of the individual chapters have been written as course material for advanced university courses Also several chapters include material related to plant operation which is prescribed for operator training Hence it bridges the gap between academic study and practical training While it is not intended to be comprehensive in all respects it does provide an overview of the topic with sufficient technical depth for a general understanding of power plant technology and a basis for further study in a particular area When used as a reference in this way each chapter can stand alone and be read independently of the others Overall it meets the general philosophy of EOLSS in providing a source of knowledge for sustainable development and technological progress for educators and decision makers

Thermal optimization and digital control of a fossil fuel power plant through computer simulation Alex Shantih Hill, 1992

Power Plant Instrumentation and Control Handbook Swapan Basu, Ajay Kumar Debnath, 2014-11-04 The book discusses instrumentation and control in modern fossil fuel power plants with an emphasis on selecting the most appropriate systems subject to constraints engineers have for their projects It provides all the plant

process and design details including specification sheets and standards currently followed in the plant Among the unique features of the book are the inclusion of control loop strategies and BMS FSSS step by step logic coverage of analytical instruments and technologies for pollution and energy savings and coverage of the trends toward field bus systems and integration of subsystems into one network with the help of embedded controllers and OPC interfaces The book includes comprehensive listings of operating values and ranges of parameters for temperature pressure flow level etc of a typical 250 500 MW thermal power plant Appropriate for project engineers as well as instrumentation control engineers the book also includes tables charts and figures from real life projects around the world Covers systems in use in a wide range of power plants conventional thermal power plants combined cogen plants supercritical plants and once through boilers Presents practical design aspects and current trends in instrumentation Discusses why and how to change control strategies when systems are updated changed Provides instrumentation selection techniques based on operating parameters Spec sheets are included for each type of instrument Consistent with current professional practice in North America Europe and India

Modeling and Simulation of Thermal Power Plants with ThermoSysPro Baligh El Hefni, Daniel

Bouskela, 2019-01-24 This book explains the modelling and simulation of thermal power plants and introduces readers to the equations needed to model a wide range of industrial energy processes Also featuring a wealth of illustrative real world examples it covers all types of power plants including nuclear fossil fuel solar and biomass The book is based on the authors expertise and experience in the theory of power plant modelling and simulation developed over many years of service with EDF In more than forty examples they demonstrate the component elements involved in a broad range of energy production systems with detailed test cases for each chemical thermodynamic and thermo hydraulic model Each of the test cases includes the following information component description and parameterization data modelling hypotheses and simulation results fundamental equations and correlations with their validity domains model validation and in some cases experimental validation and single phase flow and two phase flow modelling equations which cover all water and steam phases A practical volume that is intended for a broad readership from students and researchers to professional engineers this book offers the ideal handbook for the modelling and simulation of thermal power plants It is also a valuable aid in understanding the physical and chemical phenomena that govern the operation of power plants and energy processes

Power-plant Control and Instrumentation David Lindsley, 2000 Describes control systems for boilers and heat recovery steam generators

HRSGs in a variety of applications from waste to energy plants to combined cycle gas turbine power stations Basics such as methods of connecting instruments are explained and more advanced discussions of design features of distributed control systems are also included At every stage emphasis is given to the interactive nature of plants and to troubleshooting and problem solving Includes chapter summaries The author is Fellow of the Institution of Electrical Engineers and the Institute of Marine Engineers and is a Senior Member of the Instrument Society of America Annotation copyrighted by Book News Inc

Portland OR *Modeling a Thermal Power Plant Drum-type Boiler for Control* Chin Chen, 1977

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