



Gas Turbines Modeling, Simulation, and Control

Using Artificial Neural Networks

Hamid Asgari • XiaoQi Chen



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Gas Turbines Modeling Simulation And Control Using Artificial Neural Networks

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Loboda,Sergiy Yepifanov,2020-05-27 This book presents new studies in the area of turbomachine mathematical modeling with a focus on models applied to developing engine control and diagnostic systems The book contains one introductory and four main chapters The introductory chapter describes the area of modeling of gas and wind turbines and shows the demand for further improvement of the models The first three main chapters offer particular improvements in gas turbine modeling First a novel methodology for the modeling of engine starting is presented Second a thorough theoretical comparative analysis is performed for the models of engine internal gas capacities and practical recommendations are given on model applications in particular for engine control purposes Third multiple algorithms for calculating important unmeasured parameters for engine diagnostics are proposed and compared It is proven that the best algorithms allow accurate prognosis of engine remaining lifetime The field of wind turbine modeling is presented in the last main chapter It introduces a general purpose model that describes both aerodynamic and electric parts of a wind power plant Such a detailed physics based model will help with the development of more accurate control and diagnostic systems In this way this book includes four new studies in the area of gas and wind turbine modeling These studies will be interesting and useful for specialists in turbine engine control and diagnostics **Industry 4.0 in Small and Medium-Sized Enterprises (SMEs)** Ketan

Kotecha,Satish Kumar,Arunkumar Bongale,R. Suresh,2022-03-27 Focusing on the broader areas of Industry 4 0 as it applies to small and medium sized enterprises SMEs this book offers a smooth adoption of techniques and technologies and presents advances challenges and opportunities for implementation It will also enhance the role of academia by training new engineers on Industry 4 0 and digital transformation Industry 4 0 in Small and Medium Sized Enterprises SMEs Opportunities Challenges and Solutions presents concepts of predictive maintenance digital factory digital twin additive manufacturing and machining for sustainable development It discusses the challenges faced by adopting Industry 4 0 including new security and privacy measures in the whole smart manufacturing setup while also explaining the impact of Industry 4 0 on Lean production systems Implementation recommendations in the form of case studies research studies and

the role academia can play are also provided Practitioners research scholars academicians and those studying or working in the Industry 4.0 sector will find this book of interest

Proceedings of the UNified Conference of DAMAS, InCoME and TEPEN Conferences (UNified 2023) Andrew D. Ball, Huajiang Ouyang, Jyoti K. Sinha, Zuolu Wang, 2024-05-28 This volume gathers the latest advances innovations and applications in the field of condition monitoring damage assessment and maintenance engineering as presented by leading international researchers and engineers at the UNified Conference of DAMAS International Conference on Damage Assessment of Structures InCoME International Conference on Maintenance Engineering and TEPEN The Efficiency and Performance Engineering Conferences held in Huddersfield UK on August 29 September 1 2023 Topics include machinery dynamics sensors and measurement systems signal processing structural damage identification and machine fault diagnosis plant maintenance and reliability machine health monitoring asset management life cycle cost optimisation prognostics and health management maintenance performance measurement manufacturing process monitoring and robot based monitoring and diagnostics The contributions which were selected through a rigorous international peer review process share exciting ideas that will spur novel research directions and foster new multidisciplinary collaborations

Modelling, Simulation and Control of Gas Turbines Using Artificial Neural Networks Hamid Asgari, 2014

Introduction to Modeling, Simulation and Optimization of CO2 Sequestration in Various Types of Reservoirs Ramesh Agarwal, Danqing Liu, 2024-11-23 Carbon capture and sequestration has become an essential technology for addressing the mitigation of global warming and adverse climate change due to increasing CO2 emissions from fossil fuel combustion worldwide However the scientific engineering community still lacks thorough and practical knowledge about various types of reservoirs capable of effective long term CO2 sequestration Introduction to Modeling Simulation and Optimization of CO2 Sequestration in Various Types of Reservoirs pulls together the relevant basic scientific knowledge and applications to help reservoir engineering practitioners learn and utilize the potential of CO2 sequestration in saline oil gas shale basalt and geothermal reservoirs After presenting the fundamental properties of various reservoirs the authors describe each type of reservoir and explain basic parameters benchmark cases experimental data optimization strategies for CO2 sequestration prospects and outlook Rounding out the text with a glossary and consideration of future developments this book delivers the necessary tools for engineers to better understand carbon sequestration and advance the energy transition Introduces the physical characteristics of saline oil gas shale basalt and geothermal reservoirs Describes the physics and chemistry of CO2 sequestration in different types of reservoirs and their modeling Applies numerical simulation and optimization methodology to various reservoirs with real world examples Reviews machine learning applications to carbon capture and sequestration

Progress in Exergy, Energy, and the Environment Ibrahim Dincer, Adnan Midilli, Haydar Kucuk, 2014-06-17 This thorough and highly relevant volume examines exergy energy and the environment in the context of energy systems and applications and as a potential tool for design analysis optimization It further considers their role in

minimizing and or eliminating environmental impacts and providing for sustainable development In this regard several key topics ranging from the basics of the thermodynamic concepts to advanced exergy analysis techniques in a wide range of applications are covered *A Hybrid Approach for Power Plant Fault Diagnostics* Tamiru Alemu Lemma,2017-12-30 This book provides a hybrid approach to fault detection and diagnostics It presents a detailed analysis related to practical applications of the fault detection and diagnostics framework and highlights recent findings on power plant nonlinear model identification and fault diagnostics The effectiveness of the methods presented is tested using data acquired from actual cogeneration and cooling plants CCPs The models presented were developed by applying Neuro Fuzzy NF methods The book offers a valuable resource for researchers and practicing engineers alike Scientific and Technical Aerospace Reports ,1995 *Advances in Acoustics and Vibration* Tahar Fakhfakh,Fakher Chaari,Lasaad Walha,Moez Abdennadher,Mohamed Slim Abbes,Mohamed Haddar,2016-09-01 The book provides readers with a snapshot of recent research and industrial trends in field of industrial acoustics and vibration Each chapter accepted after a rigorous peer review process reports on a selected original piece of work presented and discussed at International Conference on Acoustics and Vibration ICAV2016 which was organized by the Tunisian Association of Industrial Acoustics and Vibration ATAVI and held March 21 23 in Hammamet Tunisia The contributions mainly written by north African authors covers advances in both theory and practice in a variety of subfields such as smart materials and structures fluid structure interaction structural acoustics as well as computational vibro acoustics and numerical methods Further topics include engines control noise identification robust design flow induced vibration and many others This book provides a valuable resource for both academics and professionals dealing with diverse issues in applied mechanics By combining advanced theories with industrial issues it is expected to facilitate communication and collaboration between different groups of researchers and technology users Energy Internet Ahmed F Zobaa,Junwei Cao,2020-06-17 This textbook is the first of its kind to comprehensively describe the energy Internet a vast network that efficiently supplies electricity to anyone anywhere and is an internet based wide area network for information and energy fusion The chapters are organized into five parts Architecture and Design Energy Switching and Routing Information and Communication Energy Management Systems and Energy Market and Trading and capture the spectrum of this exponential transformation while also presenting the plethora of open problems that this transformation poses for researchers from mixed academic backgrounds The scope includes key technologies on distributed energy sources microgrids energy storage solar and wind energy power grid smart grid power quality power electronics data centers distributed computing and networking cloud computing and big data and software defined networking The book presents the basic principles of energy internet and emphasizes the current research trends in the field of energy Internet at an advanced level It includes instructor materials case studies and worked examples throughout This is an ideal resource for students in advanced graduate level courses and special topics in energy information and control systems and is a useful tool for utility engineers who seek an

intuitive understanding of the emerging applications of energy Internet **Applied Mechanics Reviews** ,1992

Information Technology for Education, Science, and Technics Emil Faure, Yurii Tryus, Tero Vartiainen, Olena Danchenko, Maksym Bondarenko, Constantine Bazilo, Grygoriy Zaspas, 2024-10-02 This book deals with issues related to multifaceted applications of information and communication technology in research engineering robotics automation of technological processes complex systems and computer networks as well as mathematical and computer modelling of physical chemical and economic processes In this book the authors explore various aspects of information and communication technology and systems and their integration into science engineering automation and economics The authors develop new models methods and approaches for monitoring and controlling systems communication networks artificial intelligence applications and digital resilience The book is of interest to experts in the field of information and communication technology and systems scientists and Ph D students Advances in Natural Gas: Formation, Processing, and Applications. Volume 4: Natural Gas Dehydration Mohammad Reza Rahimpour, Mohammad Amin Makarem, Maryam Meshksar, 2024-03-05 *Advances in Natural Gas Formation Processing and Applications* is a comprehensive eight volume set of books that discusses in detail the theoretical basics and practical methods of various aspects of natural gas from exploration and extraction to synthesizing processing and purifying producing valuable chemicals and energy The volumes introduce transportation and storage challenges as well as hydrates formation extraction and prevention Volume 4 titled *Natural Gas Dehydration* introduces in detail different natural gas dehydration methods The book covers absorption with different solvents such as glycols ionic liquids and DES which is one of the important dehydration techniques as well as natural gas dehydration with adsorption based technologies utilizing various materials including zeolites carbonaceous sorbents metal oxides etc It discusses in detail membrane based processes with various types such as hollow fiber polymeric zeolite membranes and includes novel technologies for sweetening natural gas by using direct cooling and compression supersonic technology and micro reactors Introduces natural gas dehydration concepts and challenges Describes various absorption and adsorption processes for natural gas dehydration Discusses novel methods for natural gas dehydration including membrane and supersonic technologies *Smart Agriculture Automation Using Advanced Technologies* Amitava Choudhury, Arindam Biswas, T. P. Singh, Santanu Kumar Ghosh, 2022-01-01 This book addresses the challenges for developing and emerging trends in Internet of Things IoT for smart agriculture platforms It also describes data analytics machine learning cloud architecture automation robotics and aims to overcome existing barriers for smart agriculture with commercial viability It discusses IoT based monitoring systems for analyzing the crop environment and methods for improving the efficiency of decision making based on the analysis of harvest statistics The book explores a range of applications including intelligent field monitoring intelligent data processing and sensor technologies predictive analysis systems crop monitoring and weather data enabled analysis in IoT agro systems This volume will be helpful for engineering

and technology experts and researchers as well as for policy makers **Application of a Bank of Kalman Filters for Aircraft Engine Fault Diagnostics** ,2003 In this paper a bank of Kalman filters is applied to aircraft gas turbine engine sensor and actuator fault detection and isolation FDI in conjunction with the detection of component faults This approach uses multiple Kalman filters each of which is designed for detecting a specific sensor or actuator fault In the event that a fault does occur all filters except the one using the correct hypothesis will produce large estimation errors thereby isolating the specific fault In the meantime a set of parameters that indicate engine component performance is estimated for the detection of abrupt degradation The proposed FDI approach is applied to a nonlinear engine simulation at nominal and aged conditions and the evaluation results for various engine faults at cruise operating conditions are given The ability of the proposed approach to reliably detect and isolate sensor and actuator faults is demonstrated 7 tables 4 figures 17 refs

Advances in Water Desalination Noam Lior,2012-10-26 Desalination is a dynamically growing field with more research more engineering more applications more countries more people and with more training programs This book provides high quality invited reviews on progress in various aspects of the desalination field It features comprehensive coverage of desalination science technology economics markets energy considerations environmental impact and more It is a key guide for professionals and researchers in water desalination and related areas including chemical mechanical and civil engineers chemists materials scientists manufacturers of desalination membranes water reuse engineers and water authorities as well as students in these fields **CAD, 3D Modeling, Engineering Analysis, and Prototype Experimentation** Jeremy Zheng Li,2014-08-26 This succinct book focuses on computer aided design CAD 3 D modeling and engineering analysis and the ways they can be applied effectively in research and industrial sectors including aerospace defense automotive and consumer products These efficient tools deployed for R D in the laboratory and the field perform efficiently three dimensional modeling of finished products render complex geometrical product designs facilitate structural analysis and optimal product design produce graphic and engineering drawings and generate production documentation Written with an eye toward green energy installations and novel manufacturing facilities this concise volume enables scientific researchers and engineering professionals to learn design techniques control existing and complex issues proficiently use CAD tools visualize technical fundamentals and gain analytic and technical skills This book also Equips practitioners and researchers to handle powerful tools for engineering design and analysis using many detailed illustrations Emphasizes important engineering design principles in introducing readers to a range of techniques Includes tutorials providing readers with appropriate scaffolding to accelerate their learning process Adopts a product development cost consideration perspective through the book s many examples **Thermodynamics and Energy Engineering** Petrică Vizureanu,2020-07-29 This book is a primary survey of basic thermodynamic concepts that will allow one to predict states of a fuel cell system including potential temperature pressure volume and moles The specific topics explored include enthalpy entropy specific heat Gibbs free energy net output

voltage irreversible losses in fuel cells and fuel cell efficiency It contains twelve chapters organized into two sections on Theoretical Models and Applications The specific topics explored include enthalpy entropy specific heat Gibbs free energy net output voltage irreversible losses in fuel cells and fuel cell efficiency

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