



***Gas Turbines Modeling,  
Simulation, and Control***  
*Using Artificial Neural Networks*

*Hamid Asgari • XiaoQi Chen*



CRC Press  
Taylor & Francis Group

# Gas Turbines Modeling Simulation And Control Using Artificial Neural Networks

**Emilie Sanchez**



## **Gas Turbines Modeling Simulation And Control Using Artificial Neural Networks:**

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

**Modeling of Turbomachines for Control and Diagnostic Applications** Igor 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

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Journal of Engineering for Gas Turbines and Power ,2008

**Proceedings of the ASME Turbo Expo ...** ,2006

**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

Proceedings of the ASME Turbo Expo 2002 ,2002

**International Aerospace Abstracts** ,1998

**ASME Technical Papers** ,2001

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*35th AIAA/ASME/SAE/ASEE Joint Propulsion Conference and Exhibit* ,1999

**Aircraft Engine Sensor/Actuator/Component Fault Diagnosis Using a Bank of Kalman Filters** ,2003

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**AGARD Index of Publications** North Atlantic Treaty Organization. Advisory Group for Aerospace Research and Development,1995

**Chemical Abstracts** ,2002

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