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Gas Turbine Combined Cycle Power Plants Combined-cycle Gas & Steam Turbine Power Plants Combined Power Plants Gas Turbines for Electric Power Generation Combined Cycle Systems for Near-Zero Emission Power Generation Generating Power at High Efficiency Gas--steam Turbine Combined Cycle Power Plants Gas-Turbine Power Generation Combined Power Plants Handbook for Cogeneration and Combined Cycle Power Plants High Efficiency Gas Turbines Combined Heat and Power Advanced Gas Turbine Cycles An Overview of the Combined Cycle Gas Turbine (power) Advances in Power Boilers Advanced Gas Turbine Cycles Organic Rankine Cycle (ORC) Power Systems Advanced Technologies for Gas Turbines Integrated Gasification Combined Cycle (IGCC) Technologies 100 Years of Power Plant Development Gas Turbine Combined Cycle Power Plants. Thermal Performance Tests Advances in Steam Turbines for Modern Power Plants Current Developments in Gas Turbine Combined Cycle Plant Fundamentals of Gas Turbines Gas Turbine Engineering Handbook Modelling and Simulation of Power Generation Plants Combined Cycle Driven Efficiency for Next Generation Nuclear Power Plants The Modernization Potential of Gas Turbines in the Coal-Fired Power Industry Gas Turbine Engineering Handbook Design and Performance of Gas Turbine Power Plants Advanced Power Plant Materials, Design, and Technology System Study of an MHD/gas Turbine Combined-cycle Baseload Power Plant Gas-Turbine

Regenerators High-reliability Gas Turbine Combined-cycle Development Program : Phase I Gas Turbine Power Generation Cogeneration Power-Desalting Plants Using Gas Turbine Combined Cycle Development and Testing of a Modular Gas Turbine/steam Turbine Combined Cycle Combined Cycle Systems for Near-zero Emission Power Generation Production Costs ASME 66-GT/CMC-67

Combined cycle power plants are one of the most promising ways of improving fossil-fuel and biomass energy production. The combination of a gas and steam turbine working in tandem to produce power makes this type of plant highly efficient and allows for CO2 capture and sequestration before combustion. This book provides a comprehensive review of the design, engineering and operational issues of a range of advanced combined cycle plants. After introductory chapters on basic combined cycle power plant and advanced gas turbine design, the book reviews the main types of combined cycle system. Chapters discuss the technology, efficiency and emissions performance of natural gas-fired combined cycle (NGCC) and integrated gasification combined cycle (IGCC) as well as novel humid air cycle, oxy-combustion turbine cycle systems. The book also reviews pressurised fluidized bed combustion (PFBC), externally fired combined cycle (EFCC), hybrid fuel cell turbine (FC/GT), combined cycle and integrated solar combined cycle (ISCC) systems. The final chapter reviews techno-economic analysis of combined cycle systems. With its distinguished editor and international team of contributors, Combined cycle systems for near-zero emission power generation is a standard reference for both industry practitioners and academic researchers seeking to improve the efficiency and environmental impact of power plants. Provides a comprehensive review of the design, engineering and operational issues of a range of advanced combined cycle plants Introduces basic combined cycle power plant and advanced gas turbine design and reviews the main types of combined cycle systems Discusses the technology, efficiency and emissions performance of natural gas-fired combined cycle (NGCC) systems and integrated gasification combined cycle (IGCC) systems, as well as novel humid air cycle systems and oxy-combustion turbine cycle systems Many large-scale processes like refineries or power generation plant are constructed using the multi-vendor system and a main co-ordinating engineering contractor. With such a methodology. the key process units are installed complete with local proprietary control systems in place. Re-assessing the so called lower level control loop design or structure is becoming less feasible or desirable. Consequently, future comp~titive gains in large-scale industrial systems will arise from the closer and optimised global integration of the process sub-units. This is one of the inherent commercial themes which motivated the research reported in this monograph. To access the efficiency and feasibility of different large-scale system designs, the traditional tool has been the global steady-state analysis and energy balance. The process industries have many such tools encapsu lated as proprietary design software. However, to obtain a vital and critical insight into global process operation a dynamic model and simulation is necessary. Over the last decade, the whole state of the art in system simulation has irrevocably changed. The Graphical User Interface (G UI) and icon based simulation approach is now standard with hardware platforms becoming more and more powerful. This immediately opens the way to some new and advanced large-scale dynamic simulation developments. For example, click-together blocks from standard or specialised libraries of process units are perfectly feasible now. Combined Heat and Power Generation is a concise, up-to-date and accessible guide to the combined delivery of heat and power to anything, from a single home to a municipal power plant. Breeze discusses the historical background for CHP and why it is set to be a key emission control strategy for the 21st Century. Various technologies such as piston engines, gas turbines and fuel cells are discussed. Economic and environmental factors also are considered and analyzed, making this a very valuable resource for those involved with the research, design, implementation and management of the provision of heat and power. Discusses the historical background of combined heat and power usage and why CHP is seen as a key emission control strategy for the 21st Century Explores the technological aspects of CHP in a clear and concise style and delves into various key technologies, such as piston engines, steam and gas turbines and fuel cells Evaluates the economic factors of CHP and the installation of generation systems, along with energy conversion efficiencies Combined Power Plants The gas-steam turbine combined cycle (GTCC) is the preferred power plant type because of its high efficiency and its use of cheap and clean natural gas as fuel. It is also the preferred type in the Arab Gulf countries where it is used as cogeneration power-desalting plant (CPDP). In this chapter, descriptions and analysis of the GTCC components are presented, namely, the gas turbine cycle (compressor, combustor, gas turbine), heat recovery steam generator, and steam turbine. Combinations of the GTCC with thermally driven desalination units to present CPDP are presented. A parametric study to show the effect of using GTCC on several operating parameters on the CPDP is also presented, as well as cost allocation methods of fuel between the two product utilities (electric power and desalted seawater are also presented). Integrated Gasification Combined Cycle (IGCC) Technologies discusses this innovative power generation technology that combines modern coal gasification technology with both gas turbine and steam turbine power generation, an important emerging technology which has the potential to significantly improve the efficiencies and emissions of coal power plants. The advantages of this technology over conventional pulverized coal power plants include fuel flexibility, greater efficiencies, and very low pollutant emissions. The book reviews the current status and future developments of key technologies involved in IGCC plants and how they can be integrated to maximize efficiency and reduce the cost of electricity generation in a carbon-constrained world. The first part of this book introduces the principles of IGCC systems and the fuel types for use in IGCC systems. The second part covers syngas production within IGCC systems. The third part looks at syngas cleaning, the separation of CO2 and hydrogen enrichment, with final sections describing the gas turbine combined cycle and presenting several case studies of existing IGCC plants. Provides an in-depth, multi-contributor overview of integrated gasification combined cycle technologies Reviews the current status and future developments of key technologies involved in IGCC plants Provides several case studies of existing IGCC plants around the world Organic Rankine Cycle (ORC) Power Systems: Technologies and Applications provides a systematic and detailed description of organic Rankine cycle technologies and the way they are increasingly of interest for cost-effective sustainable energy generation. Popular applications include cogeneration from biomass and electricity generation from geothermal reservoirs and concentrating solar power installations, as well as waste heat recovery from gas turbines, internal combustion engines and medium- and low-temperature industrial processes. With hundreds of ORC power systems already in operation and the market growing at a fast pace, this is an active and engaging area of scientific research and technical development. The book is structured in three main parts: (i) Introduction to ORC Power Systems, Design and Optimization, (ii) ORC Plant Components, and (iii) Fields of Application. Provides a thorough introduction to ORC power systems Contains detailed chapters on ORC plant components Includes a section focusing on ORC design and optimization Reviews key applications of ORC technologies, including cogeneration from biomass, electricity generation from geothermal reservoirs and concentrating solar power installations, waste heat recovery from gas turbines, internal combustion engines and medium- and low-temperature industrial processes Various chapters are authored by well-known specialists from Academia and ORC manufacturers Volume XI of the High Speed Aerodynamics and Jet Propulsion series. Edited by W.R. Hawthorne and W.T. Olson. This is a comprehensive presentation of basic problems involved in the design of aircraft gas turbines, including sections covering requirements and processes, experimental techniques, fuel injection, flame stabilization, mixing processes, fuels, combustion chamber development, materials for gas turbine applications, turbine blade vibration, and performance. Originally published in 1960. The Princeton Legacy Library uses the latest print-on-demand technology to again make available previously out-of-print books from the distinguished backlist of Princeton University Press. These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions. The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905. Primarily this book describes the thermodynamics of gas turbine cycles. The search for high gas turbine efficiency has produced many variations on the simple "open circuit" plant, involving the use of heat exchangers, reheating and intercooling, water and steam injection, cogeneration and combined cycle plants. These are described fully in the text. A review of recent proposals for a number of novel gas turbine cycles is also included. In the past few years work has been directed towards developing gas turbines which produce less carbon dioxide, or plants from which the CO_2 can be disposed of; the implications of a carbon tax on electricity pricing are considered. In presenting this wide survey of gas turbine cycles for power generation the author calls on both his academic experience (at Cambridge and Liverpool Universities, the Gas Turbine Laboratory at MIT and Penn State University) and his industrial work (primarily with Rolls Royce, plc.) The book will be essential reading for final year and masters students in mechanical engineering, and for practising engineers. Overviews the thermodynamic design concepts behind the most common types of power generation plants. Termuehlen, who is retired from Siemens, shows how advances in power plant technologies--especially the large steam and gas turbine design--have improved the performance of power stations, and how problems have been overcome. Nuclear power, co-generation, combined-cycle, and coal gasification plants are described. The final chapter identifies available fuel sources, and examines the best technologies for converting fuel into electric power with the lowest adverse effect on the environment. c. Book News Inc. The purpose of this technology evaluation is to provide performance and cost characteristics of the combined gas and steam turbine, cycle system applied to an Integrated Community Energy System (ICES). To date, most of the applications of combined cycles have been for electric power generation only. The basic gas--steam turbine combined cycle consists of: (1) a gas turbine-generator set, (2) a waste-heat recovery boiler in the gas turbine exhaust stream designed to produce steam, and (3) a steam turbine acting as a bottoming cycle. Because modification of the standard steam portion of the combined cycle would be necessary to recover waste heat at a useful temperature (> 212/sup 0/F), some sacrifice in the potential conversion efficiency is necessary at this temperature. The total energy efficiency ((electric power + recovered waste heat) divided by input fuel energy) varies from about 65 to 73% at full load to 34 to 49% at 20% rated electric power output. Two major factors that must be considered when installing a gas--steam turbine combines cycle are: the realiability of the gas turbine portion of the cycle, and the availability of liquid and gas fuels or the feasibility of hooking up with a coal gasification/liquefaction process. This volume provides detailed analysis of the basic thermodynamics and economic implications of combined power plants. It includes details of developments in Europe, the USA and Japan, and should be useful to practising engineers, policy-makers, and students in mechanical engineering. Gas-Turbine Power Generation is a concise, up-to-date, and readable guide providing an introduction to gas turbine power generation technology. It includes detailed descriptions of gas fired generation systems, demystifies the functions of gas fired technology, and explores the economic and environmental risk factors Engineers, managers, policymakers and those involved in planning and delivering energy resources will find this reference a valuable guide that will help them establish a reliable power supply as they also account for both social and economic objectives. Provides a concise, up-to-date, and readable guide on gas turbine power generation technology Focuses on the evolution of gas-fired power generation using gas turbines Evaluates the economic and environmental viability of the system with concise diagrams and accessible explanations Regenerative gas turbines are attractive alternatives to diesel engines and spark ignition engines for automobiles and to diesel engines and combined-cycle en gines for power generation. Theory indicates regenerative gas turbines should achieve higher thermal efficiencies than those of diesel engines and combined cycle engines. Further, regenerative gas turbines are potentially lower in cost, require less maintenance, require less space, and pollute less than competitive systems. Regenerators can be used for exhaust-gas heat exchange or for intercooling in gas-turbine systems. As an exhaust-gas heat exchanger, a regenerator recovers heat from the exhaust and uses it to preheat the compressed air before the compressed air enters the combustor. Preheating of the compressed air permits a small heat input to the combustor for a given power output of the engine. As an intercooler, a regenerator cools the gas between compressor stages. Less work is required to compress cool gas than is required to compress warm gas. Therefore, a regenerator intercooler can reduce the required work input to the compressor. Thus, regenerators can be used to increase the thermal efficiencies and power outputs of gas turbines. the backbones of high-performance re High-performance regenerators are generative gas turbines. In the past, lack of understanding of regenerator per formance has led to sub-optimal engine designs. Now this book gives com prehensive regenerator information. With this book, the designer can design regenerators that will yield gas turbines with maximum thermal efficiencies. Combined cycle technology is used to generate power at one of the highest levels of efficiency of conventional power plants. It does this through primary generation from a gas turbine coupled with secondary generation from a steam turbine powered by primary exhaust heat. Generating power at high efficiency thoroughly charts the development and implementation of this technology in power plants and looks to the future of the technology, noting the advantages of the most important technical features – including gas turbines, steam generator, combined heat and power and integrated gasification combined cycle (IGCC) – with their latest applications. Reviews key developments in combined cycle technology Uses examples drawn from plants around the world Looks at how combined cycle technology can evolve to meet future energy needs The second edition of this book includes the most up-to-date details on the advantages of Nuclear Air-Brayton Power Plant Cycles for advanced reactors. It demonstrates significant advantages for typical sodium cooled reactors and describes how these advantages will grow as higher temperature systems (molten salts) are developed. It also describes how a Nuclear Air-Brayton system can be integrated with significant renewable (solar and wind) energy systems to build a low carbon grid. Starting with basic principles of thermodynamics as applied to power plant systems, it moves on to describe several types of Nuclear Air-Brayton systems that can be employed to meet different requirements. It provides estimates of component sizes and performance criteria for Small Modular Reactors (SMR). This book has been revised to include updated tables and significant new results that have become available for intercooled systems in the time since the previous edition published. In this edition also, the steam tables have been updated and Chapters 9 and 10 have been rewritten to keep up with the most up-to-date technology and current research. This useful reference covers all major aspects of power plant design, operation, and maintenance. It covers cycle optimization and reliability, technical details on sizing, plant layout, fuel selection, types of drives, and performance characteristics of all major components in a cogeneration or combined cycle power plant. The author discusses design, fabrication, installation, operation, and maintenance. Many illustrations, curves, and tables are used throughout the text. Special features include: Comparison of various energy systems; latest cycles and power augmentation techniques; reviews and benefits of the latest codes; detailed analysis of available equipment; descriptions of all major equipment in CCPP; techniques for improving plant reliability and maintainability; testing and plant evaluation techniques; and advantages and disadvantages of fuels. Chapter 1: Overview of Gas Turbines -- Chapter 2: Theoretical and Actual Cycle Analysis -- Chapter 3: Compressor and Turbine Performance Characteristics -- Chapter 4: Performance and Mechanical Standards -- Chapter 5: Rotor Dynamics -- Chapter 6: Centrifugal Compressors -- Chapter 7: Axial-Flow Compressors -- Chapter 8: Radial-Inflow Turbines -- Chapter 9: Axial-Flow Turbines -- Chapter 10: Combustors -- Chapter 11: Materials -- Chapter 12: Gas Clean Up System -- Chapter 13: Bearings and Seals -- Chapter 14: Gears -- Chapter 15: Lubrication -- Chapter 16: Spectrum Analysis -- Chapter 17: Balancing -- Chapter 18: Couplings and Alignment -- Chapter 19: Control Systems and Instrumentation -- Chapter 20: Gas Turbine Performance Test -- Chapter 21: Maintenance Techniques -- Chapter 22: Case Studies -- Appendix: Equivalent Units. Chemical properties, Turbines, Gas turbines, Hydraulic transmission systems, Lubricants, Contamination, Life (durability), Deterioration, Steam turbines, Maintenance, Lubricating oils, Sampling methods, Petroleum products, Mineral oils, Chemical analysis and testing Advances in Power Boilers is the second volume in the JSME Series on Thermal and Nuclear Power Generation. The volume provides the fundamentals of thermal power generation by firstly analysing different fuel options for thermal power generation and then also by tracing the development process of power boilers in about 300 years. The design principles and methodologies as well as the construction, operation and control of power boilers are explained in detail together with practical data making this a valuable guide for post-graduate students, researchers, engineers and regulators developing knowledge and skill of thermal power generation systems. Combining their wealth of experience and knowledge, the author team presents recent advanced technologies to the reader to enable them to further research and development in various systems, notably combined cycles, USC and A-USC, as well as PFBC and IGCC. The most recent best practices for material development for advanced power system as well as future scope of this important field of technology are clearly presented, and environment, maintenance, regulations and standards are considered throughout. The inclusion of photographs and drawings make this a unique reference for all those working and researching in the thermal engineering fields. The book is directed to professional engineers, researchers and post-graduate students of thermal engineering in industrial and academic field, as well as plant operators and regulators. Develops a deeper understanding of the design, construction, operation and control of power boilers, being a key component of thermal power generation system Written by experts from the leaders and pioneers in thermal engineering of the Japan Society of Mechanical Engineers and draws upon their combined wealth of knowledge and experience Includes photographs and drawings of real examples and case studies from Japan and other key regions in the world to provide a deeper learning opportunity 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. This work provides a comprehensive reference on the state of the art of gas-fired and coal-fired power plants, including 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. "... an indispensible reference for those who will be involved in the development of advanced power plants. It covers all of the bases including operational issues and environmental control." -- Professor Jim Skea, Research Director, UK Energy Research Centre, UK Part two reviews major plant components for improved operation, including advanced membrane technology for both hydrogen (H2) and carbon dioxide (CO2) separation, as well as flue gas handling technologies for improved emissions control of sulphur oxides (SOx), nitrogen oxides (NOx), 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 utilization 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 (CO2) capture and storage. Finally, improved generation performance is reviewed with coverage of syngas and hydrogen (H2) production from fossil-fuel feedstocks. With its distinguished editor and international team of contributors, this is a standard reference for both industry practitioners and academic researchers seeking to improve the efficiency and environmental impact of power plants. This book provides a comprehensive review of the design, engineering and operational issues of a range of advanced combined cycle plants; introduces basic combined cycle power plant and advanced gas turbine design and reviews the main types of combined cycle systems; discusses the technology, efficiency and emissions performance of natural gas-fired combined cycle (NGCC) systems and integrated gasification combined cycle (IGCC) systems, as well as novel humid air cycle systems and oxy-combustion turbine cycle systems. -- This title provides a reference on technical and economic factors of combined-cycle applications within the utility and cogeneration markets. Kehlhofer - and hos co-authors give the reader tips on system layout, details on controls and automation, and operating instructions. The opportunity of repowering the existing condensing power stations by means of gas turbogenerators offers an important opportunity to considerably improvement of their energy efficiency. The Modernization Potential of Gas turbines in the Coal-Fired Power Industry presents the methodology, calculation procedures and tools used to support enterprise planning for adapting power stations to dual-fuel gas-steam combined-cycle technologies. Both the conceptual and practical aspects of the conversion of existing coal-fired power plants is covered. Discussions of the feasibility, advantages and disadvantages and possible methods are supported by chapters presenting equations of energy efficiency for the conditions of repowering a power unit by installing a gas turbogenerator in a parallel system and the results of technical calculations involving the selection heating structures of heat recovery steam generators. A methodology for analyzing thermodynamic and economic effectiveness for the selection of a structure of the heat recovery steam generator for the repowered power unit is also explained. The Modernization Potential of Gas turbines in the Coal-Fired Power Industry is an informative monograph written for researchers, postgraduate students and policy makers in power engineering. Advances in Steam Turbines for Modern Power Plants provides an authoritative review of steam turbine design optimization, analysis and measurement, the development of steam turbine blades, and other critical components, including turbine retrofitting and steam turbines for renewable power plants. As a very large proportion of the world's electricity is currently generated in systems driven by steam turbines, (and will most likely remain the case in the future) with steam turbines operating in fossil-fuel, cogeneration, combined cycle, integrated gasification combined cycle, geothermal, solar thermal, and nuclear plants across the world, this book provides a comprehensive assessment of the research and work that has been completed over the past decades. Presents an in-depth review on steam turbine design optimization, analysis, and measurement Written by a range of experts in the area Provides an overview of turbine retrofitting and advanced applications in power generation Primarily this book describes the thermodynamics of gas turbine cycles. The search for high gas turbine efficiency has produced many variations on the simple "open circuit" plant, involving the use of heat exchangers, reheating and intercooling, water and steam injection, cogeneration and combined cycle plants. These are described fully in the text. A review of recent proposals for a number of novel gas turbine cycles is also included. In the past few years work has been directed towards developing gas turbines which produce less carbon dioxide, or plants from which the CO_2 can be disposed of; the implications of a carbon tax on electricity pricing are considered. In presenting this wide survey of gas turbine cycles for power generation the author calls on both his academic experience (at Cambridge and Liverpool Universities, the Gas Turbine

Laboratory at MIT and Penn State University) and his industrial work (primarily with Rolls Royce, plc.) The book will be essential reading for final year and masters students in mechanical engineering, and for practising engineers. Presents the fundamentals of the gas turbine engine, including cycles, components, component matching, and environmental considerations. Leadership in gas turbine technologies is of continuing importance as the value of gas turbine production is projected to grow substantially by 2030 and beyond. Power generation, aviation, and the oil and gas industries rely on advanced technologies for gas turbines. Market trends including world demographics, energy security and resilience, decarbonization, and customer profiles are rapidly changing and influencing the future of these industries and gas turbine technologies. Technology trends that define the technological environment in which gas turbine research and development will take place are also changing - including inexpensive, large scale computational capabilities, highly autonomous systems, additive manufacturing, and cybersecurity. It is important to evaluate how these changes influence the gas turbine industry and how to manage these changes moving forward. Advanced Technologies for Gas Turbines identifies high-priority opportunities for improving and creating advanced technologies that can be introduced into the design and manufacture of gas turbines to enhance their performance. The goals of this report are to assess the 2030 gas turbine global landscape via analysis of global leadership, market trends, and technology trends that impact gas turbine applications, develop a prioritization process, define high-priority research goals, identify high-priority research areas and topics to achieve the specified goals, and direct future research. Findings and recommendations from this report are important in guiding research within the gas turbine industry and advancing electrical power generation, commercial and military aviation, and oil and gas production. The Gas Turbine Engineering Handbook has been the standard for engineers involved in the design, selection, and operation of gas turbines. This revision includes new case histories, the latest techniques, and new designs to comply with recently passed legislation. By keeping the book up to date with new, emerging topics, Boyce ensures that this book will remain the standard and most widely used book in this field. The new Third Edition of the Gas Turbine Engineering Hand Book updates the book to cover the new generation of Advanced gas Turbines. It examines the benefit and some of the major problems that have been encountered by these new turbines. The book keeps abreast of the environmental changes and the industries answer to these new regulations. A new chapter on case histories has been added to enable the engineer in the field to keep abreast of problems that are being encountered and the solutions that have resulted in solving them. Comprehensive treatment of Gas Turbines from Design to Operation and Maintenance. In depth treatment of Compressors with emphasis on surge, rotating stall, and choke; Combustors with emphasis on Dry Low NOx Combustors; and Turbines with emphasis on Metallurgy and new cooling schemes. An excellent introductory book for the student and field engineers A special maintenance section dealing with the advanced gas turbines, and special diagnostic charts have been provided that will enable the reader to troubleshoot problems he encounters in the field The third edition consists of many Case Histories of Gas Turbine problems. This should enable the field engineer to avoid some of these same generic problems This book covers the design, analysis, and optimization of the cleanest, most efficient fossil fuel-fired electric power generation technology at present and in the foreseeable future. The book contains a wealth of first principles-based calculation methods comprising key formulae, charts, rules of thumb, and other tools developed by the author over the course of 25+ years spent in the power generation industry. It is focused exclusively on actual power plant systems and actual field and/or rating data providing a comprehensive picture of the gas turbine combined cycle technology from performance and cost perspectives. Material presented in this book is applicable for research and development studies in academia and government/industry laboratories, as well as practical, day-to-day problems encountered in the industry (including OEMs, consulting engineers and plant operators). Everything you wanted to know about industrial gas turbines for electric power generation in one source with hard-to-find, hands-on technical information.

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