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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 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 examines the technical and economic factors needed to analyze combined cycle applications for the utility and co generation markets featuring case studies the book provides useful practical guidance to anyone planning a combined cycle gas or steam turbine power plant project everything you wanted to know about industrial gas turbines for electric power generation in one source with hard to find hands on technical information 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 co2 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 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 combined cycle power plants have been built with the gas turbine steam turbine and generator connected end to end to form a machine having a single shaft to date these plants have utilized a nonreheat steam cycle and a single casing steam turbine of conventional design connected to the collector end of the generator through a flexible shaft coupling a new design has been developed for application of an advanced gas turbine of higher rating and higher firing temperature and exhaust gas temperature with a reheat steam cycle the gas turbine and steam turbine are fully integrated mechanically with solid shaft couplings and a common thrust bearing this paper describes the new machine with emphasis on the steam turbine section where the elimination of the flexible coupling created a number of unusual design requirements significant benefits in reduced cost and reduced complexity of design operation and maintenance are achieved as a result of the integration of the machine and its control and auxiliary systems 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 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 combined power plants conversion of coal fired power plant to cogeneration and combined cycle presents the methodology calculation procedures and tools used to support enterprise planning for adapting power stations to cogeneration and combined cycle forms the authors analyze the optimum selection of the structure of heat exchangers in a 370 mw power block the structure of heat recovery steam generators and gas turbines conversion of coal fired power plant to cogeneration and combined cycle also addresses the problems of converting existing power plants to dual fuel gas steam combined cycle technologies coupled with parallel systems conversion of coal fired power plant to cogeneration and combined cycle is an informative monograph written for researchers postgraduate students and policy makers in power engineering 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 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 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 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 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 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

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