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# Modern Gas Turbine Systems High Efficiency Low Emission Fuel Flexible Power Generation Woodhead Publishing Series In Energy

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RENEWABLE ENERGY SYSTEMS AND DESALINATION - Volume II

Science and Technology

Advances in Wind Turbine Blade Design and Materials

Magnetic Fusion Energy

Compendium of Hydrogen Energy

Modern Gas Turbine Systems: High Efficiency, Low Emission, Fuel Flexible Power Generation

Hydrogen Production and Purification

A Designer's Guide

Gas Turbine Combined Cycle Power Plants

Compendium of Hydrogen Energy

Gas-Turbine Power Generation

Materials, Processes and Applications

Hydrogen Storage, Distribution and Infrastructure

Nuclear Facilities

Organic Rankine Cycle (ORC) Power Systems

Gas Turbine System Technician (mechanical) 3 & 2

Papers Contributed to the Conference "Active Flow and Combustion Control 2021", September 28-29, 2021, Berlin, Germany

Materials and Applications

Advances in Battery Technologies for Electric Vehicles

Advanced District Heating and Cooling (DHC) Systems

Fuel Flexible Energy Generation

Modern Gas Turbine Systems  
Solar Energy Conversion And Photoenergy System - Volume I  
Handbook of Biofuels Production  
A Guide for Owners & Managers  
Gas Turbine System Technician (electrical) 3 & 2  
Technologies and Applications  
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Safe and Secure Transport and Storage of Radioactive Materials  
Sustainable Energy from Salinity Gradients  
Eco-friendly Innovations in Electricity Transmission and Distribution Networks  
Electrical Drives for Direct Drive Renewable Energy Systems  
Managing Nuclear Projects  
Membrane Technologies for Biorefining  
Technologies and Applications  
From Experiments to Power Plants  
Biomass Combustion Science, Technology and Engineering

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## **LANE CAMERON**

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*RENEWABLE ENERGY SYSTEMS AND DESALINATION - Volume II*  
Woodhead Publishing

In addition to the nuclear power industry, the nuclear field has extensive projects and activities in the areas of research reactors, medical isotope production, decommissioning, and remediation of contaminated sites. Managing nuclear projects focuses on the management aspects of nuclear projects in a wide range of areas

with emphasis on process, requirements, and lessons learned. Part one provides a general overview of the nuclear industry including basic principles for managing nuclear projects, nuclear safety culture, management of worker risk, training, and management of complex projects. Part two focuses on managing reactor projects with discussion on a variety of topics including management of research reactor projects, medical radioisotope production, power reactor modifications, power uprates, outage management, and management of nuclear-related R&D. Chapters in part three highlight the areas of radioactive waste and spent fuel management, reactor decommissioning, and remediation of radioactively contaminated sites. Finally, part four explores

regulation, guidance and emergency management in the nuclear industry. Chapters discuss quality assurance and auditing programs, licensing procedures for nuclear installations, emergency preparedness, management of nuclear crises, and international nuclear cooperation. With its distinguished editor and contributors, *Managing Nuclear Projects* is a valuable resource for project managers, plant managers, engineers, regulators, training professionals, consultants, and academics. Examines the basic principles of managing nuclear projects focussing on processes and requirements Discusses the management of reactor projects Explores regulation, guidance and emergency management in the nuclear industry

#### **Science and Technology** Woodhead Publishing

*Membrane Technologies for Biorefining* highlights the best practices needed for the efficient and environmentally-compatible separation techniques that are fundamental to the conversion of biomass to fuels and chemicals for use as alternatives to petroleum refining. Membrane technologies are increasingly of interest in biorefineries due to their modest energy consumption, low chemical requirements, and excellent separation efficiency. The book provides researchers in academia and industry with an authoritative overview of the different types of membranes and highlights the ways in which they can be applied in biorefineries for the production of chemicals and biofuels. Topics have been selected to highlight both the variety of raw materials treated in biorefineries and the range of biofuel and chemical end-products. Presents the first book to focus specifically on membrane technologies in biorefineries Provides a comprehensive overview of the different types of membranes

and highlight ways in which they can be applied in biorefineries for the production of chemicals and biofuels Topics selected highlight both the variety of raw materials treated using membranes in biorefineries and the range of biofuel and chemical end-products

#### Advances in Wind Turbine Blade Design and Materials Modern Gas Turbine Systems: High Efficiency, Low Emission, Fuel Flexible Power Generation

Conventional coal, oil and gas resources used worldwide for power production and transportation are limited and unsustainable. Research and development into clean, alternative hydrocarbon fuels is therefore aimed at improving fuel security through exploring new feedstock conversion techniques, improving production efficiency and reducing environmental impacts. Advances in clean hydrocarbon fuel processing provides a comprehensive and systematic reference on the range of alternative conversion processes and technologies. Following introductory overviews of the feedstocks, environmental issues and life cycle assessment for alternative hydrocarbon fuel processing, sections go on to review solid, liquid and gaseous fuel conversion. Solid fuel coverage includes reviews of liquefaction, gasification, pyrolysis and biomass catalysis. Liquid fuel coverage includes reviews of sulfur removal, partial oxidation and hydroconversion. Gaseous fuel coverage includes reviews of Fischer-Tropsch synthesis, methanol and dimethyl ether production, water-gas shift technology and natural gas hydrate conversion. The final section examines environmental degradation issues in fuel processing plants as well as automation, advanced process control and process modelling

techniques for plant optimisation Written by an international team of expert contributors, *Advances in clean hydrocarbon fuel processing* provides a valuable reference for fuel processing engineers, industrial petrochemists and energy professionals, as well as for researchers and academics in this field. A comprehensive reference on the range of alternative conversion processes and technologies Provides an overview of the feedstocks, environmental issues and life cycle assessments for alternative hydrocarbon fuel processing, including a review of the key issues in solid, liquid and gaseous fuel conversion Examines automation, advanced process control and process modelling techniques for plant optimisation

*Magnetic Fusion Energy* Woodhead Publishing

*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

*Compendium of Hydrogen Energy* Elsevier

*Advances in Membrane Technologies for Water Treatment:*

*Materials, Processes and Applications* provides a detailed overview of advanced water treatment methods involving membranes, which are increasingly seen as effective replacements for a range of conventional water treatment methods. The text begins with reviews of novel membrane materials and advances in membrane operations, then examines the processes involved with improving membrane performance. Final chapters cover the application of membrane technologies for use in water treatment, with detailed discussions on municipal wastewater and reuse in the textile and paper industries.

Provides a detailed overview of advanced water treatment methods involving membranes Coverage includes advancements in membrane materials, improvement in membrane performance, and their applications in water treatment Discusses the use of membrane technologies in the production of drinking water, desalination, wastewater treatment, and recovery

*Modern Gas Turbine Systems: High Efficiency, Low Emission, Fuel Flexible Power Generation* Academic Press

*Renewable Energy Systems and Desalination* is a component of

Encyclopedia of Water Sciences, Engineering and Technology Resources in the global Encyclopedia of Life Support Systems (EOLSS), which is an integrated compendium of twenty one Encyclopedias. The two volumes present state-of-the art subject matter of various aspects of Renewable Energy Systems and Desalination such as: A Short Historical Review Of Renewable Energy; Renewable Energy Resources; Desalination With Renewable Energy - A Review; Renewable Energy And Desalination Systems; Why Use Renewable Energy For Desalination; Thermal Energy Storage; Electrical Energy Storage; Tidal Energy; Desalination Using Tidal Energy; Wave Energy; Availability Of Wind Energy And Its Estimation; The Use Of Geothermal Energy In Desalination; Solar Radiation Energy (Fundamentals); High Temperature Solar Concentrators; Medium Temperature Solar Concentrators (Parabolic-Troughs Collectors); Low Temperature Solar Collectors; Solar Photovoltaic Energy Conversion; Photovoltaics; Flat-Plate Collectors; Large Active Solar Systems: Load; Integration Of Solar Pond With Water Desalination; Large Active Solar Systems: Typical Economic Analysis; Evacuated Tube Collectors; Parabolic Trough Collectors; Central Receivers; Configuration, Theoretical Analysis And Performance Of Simple Solar Stills; Development In Simple Solar Stills; Multi-Effect Solar Stills; Materials For Construction Of Solar Stills; Reverse Osmosis By Solar Energy; Solar Distillation; Solar Photochemistry; Photochemical Conversion Of Solar Energy; Availability Of Solar Radiation And Its Estimation; Economics Of Small Solar-Assisted Multipleeffect Seawater Distillation Plants; A Solar-Assisted Sea Water Multiple Effect Distillation Plant 15 Years Of Operating Performance (1985-1999);Mathematical

Simulation Of A Solar Desalination Plant; Mathematical Models Of Solar Energy Conversion Systems; Multiple Effect Distillation Of Seawater Using Solar Energy - The Case Of Abu Dhabi Solar Desalination Plant; Solar Irradiation Fundamentals; Water Desalination By Humidification And Dehumidification Of Air, Seawater Greenhouse Process. These volumes are aimed at the following five major target audiences: University and College Students Educators, Professional Practitioners, Research Personnel and Policy and Decision Makers

### **Hydrogen Production and Purification** MIT Press

Modern Gas Turbine Systems: High Efficiency, Low Emission, Fuel Flexible Power GenerationWoodhead Publishing

### A Designer's Guide Elsevier

Electricity transmission and distribution (T&D) networks carry electricity from generation sites to demand sites. With the increasing penetration of decentralised and renewable energy systems, in particular variable power sources such as wind turbines, and the rise in demand-side technologies, the importance of innovative products has never been greater. Eco-design approaches and standards in this field are aimed at improving the performance as well as the overall sustainability of T&D network equipment. This multidisciplinary reference provides coverage of developments and lessons-learned in the fields of eco-design of innovation from product-specific issues to system approaches, including case studies featuring problem-solving methodologies applicable to electricity transmission and distribution networks. Discusses key environmental issues and methodologies for eco-design, and applies this to development of equipment for electricity transmission and distribution. Provides

analysis of using and assessing advanced equipment for wind energy systems. Includes reviews of the energy infrastructure for demand-side management in the US and Scandinavia.

**Gas Turbine Combined Cycle Power Plants** Elsevier

Wind energy is gaining critical ground in the area of renewable energy, with wind energy being predicted to provide up to 8% of the world's consumption of electricity by 2021. Advances in wind turbine blade design and materials reviews the design and functionality of wind turbine rotor blades as well as the requirements and challenges for composite materials used in both current and future designs of wind turbine blades. Part one outlines the challenges and developments in wind turbine blade design, including aerodynamic and aeroelastic design features, fatigue loads on wind turbine blades, and characteristics of wind turbine blade airfoils. Part two discusses the fatigue behavior of composite wind turbine blades, including the micromechanical modelling and fatigue life prediction of wind turbine blade composite materials, and the effects of resin and reinforcement variations on the fatigue resistance of wind turbine blades. The final part of the book describes advances in wind turbine blade materials, development and testing, including biobased composites, surface protection and coatings, structural performance testing and the design, manufacture and testing of small wind turbine blades. Advances in wind turbine blade design and materials offers a comprehensive review of the recent advances and challenges encountered in wind turbine blade materials and design, and will provide an invaluable reference for researchers and innovators in the field of wind energy production, including materials scientists and engineers, wind turbine blade

manufacturers and maintenance technicians, scientists, researchers and academics. Reviews the design and functionality of wind turbine rotor blades Examines the requirements and challenges for composite materials used in both current and future designs of wind turbine blades Provides an invaluable reference for researchers and innovators in the field of wind energy production

Compendium of Hydrogen Energy Elsevier

Fuel Flexible Energy Generation: Solid, Liquid and Gaseous Fuels provides updated information on flexible fuel energy generation, the process by which one or more fuels can be combusted in the same boiler or turbine to generate power. By adapting or building boilers and turbines to accept multiple fuel sources, they can be co-fired with biomass and waste derived fuels, allowing a reduction in carbon output, thus providing cleaner energy. Fuel flexibility is becoming more important in a world of diminishing fossil fuel stocks. Many countries are investing in the development of more efficient fuel flexible boilers and turbines, and their use is becoming more prevalent in industry as well. This book provides comprehensive coverage of flexible fuel energy generation across all potential fuel types, and was written by a selection of experts in the field who discuss the types of fuels which can be used in fuel flexible energy generation, from solid fuels to biomass fuels, the preparation of fuels to be used in fuel flexible operations, that includes their handling and transport, and combustion and conversion technologies with chapters ranging from large-scale coal gasification to technology options and plant design issues. Focuses on fuel flexibility across all potential fuel types Includes thorough treatment of the

technology being developed to allow for fuel flexibility Written by leading experts in the field Provides an essential text for R&D managers in firms which produce boilers or turbines, those who work in the fuel industry, and academics working in engineering departments on energy generation

*Gas-Turbine Power Generation* Woodhead Publishing

Membrane Reactors for Energy Applications and Basic Chemical Production presents a discussion of the increasing interest in membrane reactors that has emerged in recent years from both the scientific and industrial communities, in particular their usage for energy applications and basic chemical production. Part One of the text investigates membrane reactors for syngas and hydrogen production, while Part Two examines membrane reactors for other energy applications, including biodiesel and bioethanol production. The final section of the book reviews the use of membrane reactors in basic chemical production, including discussions of the use of MRs in ammonia production and the dehydrogenation of alkanes to alkenes. Provides comprehensive coverage of membrane reactors as presented by a world-renowned team of experts Includes discussions of the use of membrane reactors in ammonia production and the dehydrogenation of alkanes to alkenes Tackles the use of membrane reactors in syngas, hydrogen, and basic chemical production Keen focus placed on the industry, particularly in the use of membrane reactor technologies in energy

CRC Press

Magnetic Fusion Energy: From Experiments to Power Plants is a timely exploration of the field, giving readers an understanding of the experiments that brought us to the threshold of the ITER era,

as well as the physics and technology research needed to take us beyond ITER to commercial fusion power plants. With the start of ITER construction, the world's magnetic fusion energy (MFE) enterprise has begun a new era. The ITER scientific and technical (S&T) basis is the result of research on many fusion plasma physics experiments over a period of decades. Besides ITER, the scope of fusion research must be broadened to create the S&T basis for practical fusion power plants, systems that will continuously convert the energy released from a burning plasma to usable electricity, operating for years with only occasional interruptions for scheduled maintenance. Provides researchers in academia and industry with an authoritative overview of the significant fusion energy experiments Considers the pathway towards future development of magnetic fusion energy power plants Contains experts contributions from editors and others who are well known in the field

*Materials, Processes and Applications* Cambridge University Press Designing new nuclear facilities is an extraordinarily complex exercise, often requiring teams of specialists several hundred strong. Nuclear Facilities: A Designer's Guide provides an insight into each of the main contributors and shows how the whole design process is drawn together. Essential reading for all nuclear professionals: those already involved in the industry will gain knowledge that enables them to interact more effectively with colleagues in other disciplines. Its wealth of information will assist students and graduates in progressing more rapidly into fully rounded contributors to the nuclear facility design process. Whilst those joining nuclear from other industries will find a structured introduction to the nuclear world and discover what differentiates

it from other spheres of engineering. A single, comprehensive text on nuclear facility design which covers all major aspects of the process Packed full of essential information, its complex subject matter is explained in a logical and comprehensible style Valuable to those involved in both new build and decommissioning projects Written by a highly respected expert in the nuclear industry

Hydrogen Storage, Distribution and Infrastructure EOLSS Publications

Solar Energy Conversion and Photoenergy Systems theme in two volumes is a component of Encyclopedia of Energy Sciences, Engineering and Technology Resources in the global Encyclopedia of Life Support Systems (EOLSS), which is an integrated compendium of twenty Encyclopedias. Any human activity needs energy and renewable energies are always present all over the world. Each location has its own specific renewable potential and it is our task to develop the suitable technologies to profit, at local level, this potential to not only produce the needed energy but also create economic activity and wealth. Solar energy, in particular, has the highest potential among all existing renewable energies and, in the context of the energy, water and climate change global problems mankind will face in the coming years, the substantial integration of solar energy technologies into our societies will an absolute needs in the short to medium term. The number of applications of solar energy is simply huge, covering a very wide range of human activities. Some of these applications are already technically and economically viable, being others still at research or demonstration level. In addition, it has been demonstrated the important benefits solar energy can

provide to any area with medium-high solar irradiation level: from sustainability to energy independence, as well as economic development and knowledge creation. Due to this, solar energy development, from photovoltaic to solar thermal or power applications, has been very intense during the last years in all the, so called, "Sun Belt". There is also the general consensus, at many countries, that we should accelerate the current solar energy pathway, increasing the research efforts to make economically feasible the applications that today are only technically feasible. This effort and the status of most of these applications have been discussed along this paper and within the articles of the topic. The Theme on Solar Energy Conversion and Photoenergy Systems with contributions from distinguished experts in the field, discusses solar energy related technologies and applications, some of which are already in commercial and practical applications and others are under research and testing level. The volumes provide an analysis and discussion about the reasons behind the current efforts of our society, considering both developed and developing countries, to accelerate the introduction of the huge solar energy potential into our normal daily lives. The two volumes also provide some basic information about the solar energy potential, history and the amazing trip of a photon from its creation in the Sun until its arrival to the Earth. These two volumes are aimed at the following five major target audiences: University and College Students Educators, Professional Practitioners, Research Personnel and Policy Analysts, Managers, and Decision Makers, NGOs and GOs. Nuclear Facilities Woodhead Publishing Salinity gradient energy, also known as blue energy and osmotic



energy, is the energy obtainable from the difference in salt concentration between two feed solutions, typically sea water and river water. It is a large-scale renewable resource that can be harvested and converted to electricity. Efficient extraction of this energy is not straightforward, however. Sustainable Energy from Salinity Gradients provides a comprehensive review of resources, technologies and applications in this area of fast-growing interest. Key technologies covered include pressure retarded osmosis, reverse electrodialysis and accumulator mixing. Environmental and economic aspects are also considered, together with the possible synergies between desalination and salinity gradient energy technologies. Sustainable Energy from Salinity Gradients is an essential text for R&D professionals in the energy & water industry interested in salinity gradient power and researchers in academia from post-graduate level upwards. For more than ten years the Editors have been sharing substantial research activities in the fields of renewable energy and desalination, successfully participating to a number of European Union research projects and contributing to the relevant scientific literature with more than 100 papers and 2 books on Desalination technologies and their coupling with Renewable Energy. They are intensely working in the field of Salinity Gradient Power, carrying out research with specific focus on open-loop and closed-loop reverse electrodialysis and pressure retarded osmosis. Covers applications of pressure retarded osmosis, reverse electrodialysis, and capacitive mixing for salinity gradient power in one convenient volume Presents the environmental aspects and economics of salinity gradient energy Explores possible synergies between desalination and salinity gradient energy

#### Organic Rankine Cycle (ORC) Power Systems Elsevier

Wind turbine gearboxes present major reliability issues, leading to great interest in the current development of gearless direct-drive wind energy systems. Offering high reliability, high efficiency and low maintenance, developments in these direct-drive systems point the way to the next generation of wind power, and Electrical drives for direct drive renewable energy systems is an authoritative guide to their design, development and operation. Part one outlines electrical drive technology, beginning with an overview of electrical generators for direct drive systems. Principles of electrical design for permanent magnet generators are discussed, followed by electrical, thermal and structural generator design and systems integration. A review of power electronic converter technology and power electronic converter systems for direct drive renewable energy applications is then conducted. Part two then focuses on wind and marine applications, beginning with a commercial overview of wind turbine drive systems and an introduction to direct drive wave energy conversion systems. The commercial application of these technologies is investigated via case studies on the permanent magnet direct drive generator in the Zephyros wind turbine, and the Archimedes Wave Swing (AWS) direct drive wave energy pilot plant. Finally, the book concludes by exploring the application of high-temperature superconducting machines to direct drive renewable energy systems. With its distinguished editors and international team of expert contributors, Electrical drives for direct drive renewable energy systems provides a comprehensive review of key technologies for anyone involved with or interested in the design, construction, operation,

development and optimisation of direct drive wind and marine energy systems. An authoritative guide to the design, development and operation of gearless direct drives Discusses the principles of electrical design for permanent magnet generators and electrical, thermal and structural generator design and systems integration Investigates the commercial applications of wind turbine drive systems

**Gas Turbine System Technician (mechanical) 3 & 2** Elsevier

Absorption-Based Post-Combustion Capture of Carbon Dioxide provides a comprehensive and authoritative review of the use of absorbents for post-combustion capture of carbon dioxide. As fossil fuel-based power generation technologies are likely to remain key in the future, at least in the short- and medium-term, carbon capture and storage will be a critical greenhouse gas reduction technique. Post-combustion capture involves the removal of carbon dioxide from flue gases after fuel combustion, meaning that carbon dioxide can then be compressed and cooled to form a safely transportable liquid that can be stored underground. Provides researchers in academia and industry with an authoritative overview of the amine-based methods for carbon dioxide capture from flue gases and related processes Editors and contributors are well known experts in the field Presents the first book on this specific topic

*Papers Contributed to the Conference "Active Flow and Combustion Control 2021", September 28-29, 2021, Berlin, Germany* Elsevier

Safe and Secure Transport and Storage of Radioactive Materials reviews best practice and emerging techniques in this area. The transport of radioactive materials is an essential operation in the

nuclear industry, without which the generation of nuclear power would not be possible. Radioactive materials also often need to be stored pending use, treatment, or disposal. Given the nature of radioactive materials, it is paramount that transport and storage methods are both safe and secure. A vital guide for managers and general managers in the nuclear power and transport industries, this book covers topics including package design, safety, security, mechanical performance, radiation protection and shielding, thermal performance, uranium ore, fresh fuel, uranium hexafluoride, MOX, plutonium, and more. Uniquely comprehensive and systematic coverage of the packaging, transport, and storage of radioactive materials Section devoted to spent nuclear fuels Expert team of authors and editors

Woodhead Publishing

Compendium of Hydrogen Energy, Volume 2: Hydrogen Storage, Distribution and Infrastructure focuses on the storage and transmission of hydrogen. As many experts believe the hydrogen economy will, at some point, replace the fossil fuel economy as the primary source of the world's energy, this book details hydrogen storage in pure form, including chapters on hydrogen liquefaction, slush production, as well as underground and pipeline storage. Other sections in the book explore physical and chemical storage, including environmentally sustainable methods of hydrogen production from water, with final chapters dedicated to hydrogen distribution and infrastructure. Covers a wide array of methods for storing hydrogen, detailing hydrogen transport and the infrastructure required for transition to the hydrogen economy Written by leading academics in the fields of

sustainable energy and experts from the world of industry Part of a very comprehensive compendium which looks at the entirety of the hydrogen energy economy

*Materials and Applications* Woodhead Publishing

The second edition of a comprehensive textbook that introduces turbomachinery and gas turbines through design methods and examples. This comprehensive textbook is unique in its design-focused approach to turbomachinery and gas turbines. It offers students and practicing engineers methods for configuring these machines to perform with the highest possible efficiency.

Examples and problems are based on the actual design of turbomachinery and turbines. After an introductory chapter that outlines the goals of the book and provides definitions of terms and parts, the book offers a brief review of the basic principles of

thermodynamics and efficiency definitions. The rest of the book is devoted to the analysis and design of real turbomachinery configurations and gas turbines, based on a consistent application of thermodynamic theory and a more empirical treatment of fluid dynamics that relies on the extensive use of design charts. Topics include turbine power cycles, diffusion and diffusers, the analysis and design of three-dimensional free-stream flow, and combustion systems and combustion calculations. The second edition updates every chapter, adding material on subjects that include flow correlations, energy transfer in turbomachines, and three-dimensional design. A solutions manual is available for instructors. This new MIT Press edition makes a popular text available again, with corrections and some updates, to a wide audience of students, professors, and professionals.

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