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Combined Heating, Cooling & Power Handbook - Neil Petchers 2020-11-26
Completely revised, this second edition of a bestseller explores the latest technology advancements and the many changes and developments in the utility and environmental regulation areas. It includes new information on the state of deregulation and market pricing as well as discussion of smart grid and other emerging programs. The environmental sections reflect the current emphasis on greenhouse gas emissions and carbon management, updates to CAAA regulations and timelines and the latest developments in the use and control of refrigerants.
Gas Turbines - Claire Soares 2014-10-23
Covering basic theory, components, installation, maintenance, manufacturing, regulation and industry developments, Gas Turbines: A Handbook of Air, Sea and Land Applications is a broad-based introductory reference designed to give you the knowledge needed to succeed in the gas turbine industry, land, sea and air applications. Providing the big picture view that other detailed, data-focused resources lack, this book has a strong focus on the information needed to effectively decision-make and plan gas turbine system use for particular applications, taking into consideration not only operational requirements but long-term life-cycle costs in upkeep, repair and future use. With concise, easily digestible overviews of all important theoretical bases and a practical focus throughout, Gas Turbines is an ideal handbook for those new to the field or in the early stages of their career, as well as more experienced engineers looking for a reliable, one-stop reference that covers the breadth of the field. Covers installation, maintenance, manufacturer's specifications, performance criteria and future trends, offering a rounded view of the area that takes in technical detail as well as well as industry economics and outlook Updated with the latest industry developments, including new emission and efficiency regulations and their impact on gas turbine technology Over 300 pages of new/revised content, including new sections on microturbines, non-conventional fuel sources for microturbines, emissions, major developments in aircraft engines, use of coal gas and superheated steam, and new case histories throughout highlighting component improvements in all systems and sub-systems.
The Energy Index - 1988

DYNGEN - James F. Sellers 1975

Gas Turbines and Jet Propulsion - United States. National Bureau of Standards 1947

Modern Marine Engineer's Manual - Everett C. Hunt 1999
This book is designed to serve as a textbook for students and a reference for today's engineering officers, port engineers, superintendent engineers, and other maritime professionals. Steam turbine propulsion systems are included, but the coverage has been reduced in recognition of the popularity of main propulsion diesel engines, covered in volume 2, and the anticipated increasing applications of aeroderivative gas turbines. Reciprocating steam engines have been eliminated. Pumps, pumping systems, and heat exchangers are given extensive coverage. Computer applications for machinery and system management are presented, including an entire chapter on maintenance management. Relevant material on international and national laws, classification society requirements, and standards, such as ISO 9000 series and the ISM code, are included in the text. The characteristics of fuels are presented along with a discussion of fuel testing and analysis, and a section on bunkering. A chapter on safety and management discusses shipboard engineering operations, shipyard repair planning and economics, and safety management. Each chapter includes review questions and references for additional study.
Gas Turbine Performance - Philip P. Walsh 2008-04-15
A significant addition to the literature on gas turbine technology, the second edition of Gas Turbine Performance is a lengthy text covering product advances and technological developments. Including extensive figures, charts, tables and formulae, this book will interest everyone concerned with gas turbine technology, whether they are designers, marketing staff or users.
Dynamic Modelling of Gas Turbines - Gennady G. Kulikov 2013-12-11
Whereas other books in this area stick to the theory, this book shows the reader how to apply the theory to real engines. It provides access to up-to-date perspectives in the use of a variety of modern advanced control techniques to gas turbine technology.
The Gas Turbine Handbook - Tony Giampaolo 2003
This comprehensive, best-selling reference provides the fundamental information you'll need to understand both the operation and proper application of all types of gas turbines. The full spectrum of hardware, as well as typical application scenarios are fully explored, along with operating parameters, controls, inlet treatments, inspection, troubleshooting, and more. The second edition adds a new chapter on gas turbine noise control, as well as an expanded section on use of inlet cooling for power augmentation and NOx control. The author has provided many helpful tips that will enable diagnosis of problems in their early stages and analysis of failures to prevent their recurrence. Also treated are the effects of the external environment on gas turbine operation and life, as well as the impact of the gas turbine on its surrounding environment.
Advanced Manufacturing Technologies - Kapil Gupta 2017-04-29
This book provides details and collective information on working principle, process mechanism, salient features, and unique applications of various advanced manufacturing techniques and processes belong. The book is divided in three sessions covering modern machining methods, advanced repair and joining techniques and, finally, sustainable manufacturing. The latest trends and research aspects of those fields are highlighted.
Industrial Gas Turbines - A M Y Razak 2007-10-31
Industrial Gas Turbines: Performance and Operability explains important aspects of gas turbine performance such as performance deterioration, service life and engine emissions. Traditionally, gas turbine performance has been taught from a design perspective with insufficient attention paid to the operational issues of a specific site. Operators are not always sufficiently familiar with engine performance issues to resolve operational problems and optimise performance. Industrial Gas Turbines: Performance and Operability discusses the key factors determining the performance of compressors, turbines, combustion and engine controls. An accompanying engine simulator CD illustrates gas turbine performance from the perspective of the operator, building on the concepts discussed in the text. The simulator is effectively a virtual engine and can be subjected to operating conditions that would be dangerous and damaging to an engine in real-life conditions. It also deals

with issues of engine deterioration, emissions and turbine life. The combined use of text and simulators is designed to allow the reader to better understand and optimise gas turbine operation. Discusses the key factors in determining the perfomance of compressors, turbines, combustion and engine controls Explains important aspects of gas and turbine perfomance such as service life and engine emissions Accompanied by CD illustrating gas turbine performance, building on the concepts discussed in the text

Gas Turbines for Electric Power Generation - S. Can Gülen 2019-02-14

Everything you wanted to know about industrial gas turbines for electric power generation in one source with hard-to-find, hands-on technical information.

Shipbuilding and Shipping Record - 1919

Turbomachinery International - 2001

Vols. for 1977- include a section: Turbomachinery world news, called v. 1-

Marine Power Plant - Zongming Yang 2021-02-12

This book describes the history and development of marine power plant. Problems of arrangement, general construction and parameters of marine power plants of all types are considered. It also introduces different characteristics of each type of marine power plant, matching characteristic for diesel propulsion. The book gives a clear idea about different marine power engines, including working principle, structure and application. Readers will understand easily the power system for ships since there are a lot of illustrations and instructions for each of the equipment. This book is useful for students majoring in “marine engineering”, “energy and power engineering” and other related majors. It is also useful for operators of marine institution for learning main design and operation of ship plants.

Maritime Reform - United States. Congress. House. Committee on Merchant Marine and Fisheries. Subcommittee on Coast Guard and Navigation 1994

Aircraft Gas Turbine Engine Technology - Irwin E. Treager 1994

F/A 18 Hornet - Dennis R. Jenkins 2002-04-01

Ship Hydrostatics and Stability - Adrian Biran 2013-10-17

Ship Hydrostatics and Stability is a complete guide to understanding ship hydrostatics in ship design and ship performance, taking you from first principles through basic and applied theory to contemporary mathematical techniques for hydrostatic modeling and analysis. Real life examples of the practical application of hydrostatics are used to explain the theory and calculations using MATLAB and Excel. The new edition of this established resource takes in recent developments in naval architecture, such as parametric roll, the effects of non-linear motions on stability and the influence of ship lines, along with new international stability regulations. Extensive reference to computational techniques is made throughout and downloadable MATLAB files accompany the book to support your own hydrostatic and stability calculations. The book also includes definitions and indexes in French, German, Italian and Spanish to make the material as accessible as possible for international readers. Equips naval architects with the theory and context to understand and manage ship stability from the first stages of design through to construction and use. Covers the prerequisite foundational theory, including ship dimensions and geometry, numerical integration and the calculation of heeling and righting moments. Outlines a clear approach to stability modeling and analysis using computational methods, and covers the international standards and regulations that must be kept in mind throughout design work. Includes definitions and indexes in French, German, Italian and Spanish to make the material as accessible as possible for international readers.

Naval Engineers Journal - 1922

Service Annual Survey - 1986

Propulsion and Power - Joachim Kurzke 2018-05-28

The book is written for engineers and students who wish to address the preliminary design of gas turbine engines, as well as the associated performance calculations, in a practical manner. A basic knowledge of thermodynamics and turbomachinery is a prerequisite for understanding the concepts and ideas described. The book is also intended for teachers as a source of information for lecture materials and exercises for their students. It is extensively illustrated with examples and data from real engine cycles, all of which can be reproduced with GasTurb (TM). It discusses the practical application of thermodynamic, aerodynamic and mechanical principles. The authors describe the theoretical background of the simulation elements and the relevant correlations through which they are applied, however they refrain from detailed scientific derivations.

The Engineering Duty Officer (general) - United States. Bureau of Naval Personnel 1963

Gas Turbine Engineering Handbook - Meherwan P. Boyce 2017-09-01

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

Hornet - Orr Kelly 2014-06-24

The fascinating true story of the controversial development and deployment of the supersonic fighter jet that changed aerial warfare forever The McDonnell Douglas F/A-18 Hornet was born in 1978, a state-of-the-art supersonic fighter and attack aircraft with a top speed of Mach 1.8, more than one thousand miles per hour. It was versatile, fast, and reliable, and no war machine in the air could match it. The marines adopted it first, followed by the navy, impressed by its incomparable ability to engage in close aerial combat while at the same time efficiently delivering explosive payloads to designated enemy targets. It became the aircraft of choice for the US Navy’s famous Blue Angels flight demonstration squadron in 1986 and served ably in combat from its first mission—America’s launched air strike against Libya that same year—through 1991’s Operation Desert Storm and well beyond. Yet the Hornet has always been shrouded in controversy, and while still in its planning stages, it sparked an unprecedented political battle that nearly doomed the miraculous machine before it could take flight. Orr Kelly, the acclaimed military author who has notably chronicled the remarkable histories of the US Navy SEALs and other branches of America’s Special Forces, tells the fascinating true story of the F/A-18 Hornet—how it came to be, how it almost wasn’t, and how it forever altered the way our nation’s wars are fought.

Gas Turbine Theory - G.F.C. Rogers 2017-06-07

When the First Edition of this book was written in 1951, the gas turbine was just becoming established as a powerplant for military aircraft. It took another decade before the gas turbine was introduced to civil

aircraft, and this market developed so rapidly that the passenger liner was rendered obsolete. Other markets like naval propulsion, pipeline compression and electrical power applications grew steadily. In recent years the gas turbine, in combination with the steam turbine, has played an ever-increasing role in power generation. Despite the rapid advances in both output and efficiency, the basic theory of the gas turbine has remained unchanged. The layout of this new edition is broadly similar to the original, but greatly expanded and updated, comprising an outline of the basic theory, aerodynamic design of individual components, and the prediction of off-design performance. The addition of a chapter devoted to the mechanical design of gas turbines greatly enhances the scope of the book. Descriptions of engine developments and current markets make this book useful to both students and practising engineers.
Paper - 1997

Emission Controls in Electricity Generation and Industry - International Energy Agency 1988

Aircraft Propulsion and Gas Turbine Engines - Ahmed F. El-Sayed 2017-07-06
Aircraft Propulsion and Gas Turbine Engines, Second Edition builds upon the success of the book’s first edition, with the addition of three major topic areas: Piston Engines with integrated propeller coverage; Pump Technologies; and Rocket Propulsion. The rocket propulsion section extends the text’s coverage so that both Aerospace and Aeronautical topics can be studied and compared. Numerous updates have been made to reflect the latest advances in turbine engines, fuels, and combustion. The text is now divided into three parts, the first two devoted to air breathing engines, and the third covering non-air breathing or rocket engines.
High Performance Marine Vessels - Liang Yun 2014-07-08
High Performance Marine Vessels (HPMVs) range from the Fast Ferries to the latest high speed Navy Craft, including competition power boats and hydroplanes, hydrofoils, hovercraft, catamarans and other multi-hull craft. High Performance Marine Vessels covers the main concepts of HPMVs and discusses historical background, design features, services that have been successful and not so successful, and some sample data of the range of HPMVs to date. Included is a comparison of all HPMVs craft and the differences between them and descriptions of performance (hydrodynamics and aerodynamics). Readers will find a comprehensive overview of the design, development and building of HPMVs.
ASME Technical Papers - 1997

Controlling Head Lice - 1984

Business Diagnostics 4th Edition - Richard Mimick 2021-06-30
Business Diagnostics is an invaluable reference guide for today's business student and owner. The authors have devised a unique framework that allows a business student to quickly find information without reference to numerous business texts and provides small/medium size company owners and managers the tools to complete a powerful external and internal evaluation of their corporate health. This indispensable book provides insights and reference sources covering a broad spectrum of business issues from digital marketing to operations, obtaining financing, implementing growth strategies and surviving when times get tough.
Compressors - Royce N. Brown 2011-08-30
This practical reference provides in-depth information required to understand and properly estimate compressor capabilities and to select the proper designs. Engineers and students will gain a thorough understanding of compression principles, equipment, applications, selection, sizing, installation, and maintenance. The many examples clearly illustrate key aspects to help readers understand the "real world" of compressor technology. Compressors: Selection and Sizing, third edition is completely updated with new API standards. Additions requested by readers include a new section on diaphragm compressors in the reciprocating compressors chapter, and a new section on rotor dynamics stability in the chapter on diaphragm compressors. The latest

technology is presented in the areas of efficiency, 3-D geometry, electronics, CAD, and the use of plant computers. The critical chapter on negotiating the purchase of a compressor now reflects current industry practices for preparing detailed specifications, bid evaluations, engineering reviews, and installation. A key chapter compares the reliability of various types of compressors. * Everything you need to select the right compressor for your specific application. * Practical information on compression principles, equipment, applications, selection, sizing, installation, and maintenance. * New sections on diaphragm compressors and an introduction to rotor dynamics stability.

Fashion as Cultural Translation - Patrizia Calefato 2021-01-30

The book highlights how the signs of fashion showcase stories, hybridations, forms of feeling, from the classics of fashion in cinema, to fashion as cultural tradition in the global world, to digital media. Based on a strong socio-semiotic method (Barthes, The Language of Fashion is the main reference), the book crosses some of the main aspects of the contemporary culture of the clothed body: from time and space, to gender, to fashion as cultural translation, to the narratives included in the media convergence of our age. According to Jurji Lotman, fashion introduces the dynamic principle into seemingly inert spheres of the everyday. Fashion's unexpected function of overturning received meaning is conveyed through its collocation within the dynamic storehouse of what Lotman calls the "sphere of the unpredictable." In this horizon, the concept of fashion as a worldly system of sense (Benjamin) generates different "worlds" through its signs.

Technology Report and Product Directory, Land, Sea & Air - 1998

Synthetic Fuels from Coal - United States. Interagency Task Force on Synthetic Fuels from Coal 1974

This report provides a data base for Project Independence Blueprint in the area of synthetic fuels from coal. This area involves both industrial practice and a relatively large amount of advanced coal conversion technology, much of which is on an advanced pilot plant level. It must be emphasized that the report simply identifies representative resources (financial, raw materials, manpower) needed in case a decision is made to achieve given synthetic fuel production rates. The report does not suggest or imply that the resources identified herein, either financial in terms of capital or raw resources in terms of the needed coal mine capacities, are currently available. By simply identifying the critical resources, this report provides a needed data base for decision in the area of synthetic fuels.

Machinery Oil Analysis - Larry A. Toms 2008

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.

Modern Gas Turbine Systems - Peter Jansohn 2013-08-31

Modern gas turbine power plants represent one of the most efficient and economic conventional power generation technologies suitable for large-scale and smaller scale applications. Alongside this, gas turbine systems operate with low emissions and are more flexible in their operational characteristics than other large-scale generation units such as steam cycle plants. Gas turbines are unrivalled in their superior power density (power-to-weight) and are thus the prime choice for industrial applications where size and weight matter the most. Developments in the field look to improve on this performance, aiming at higher efficiency generation, lower emission systems and more fuel-flexible operation to utilise lower-grade gases, liquid fuels, and gasified solid fuels/biomass. Modern gas turbine systems provides a comprehensive review of gas turbine science and engineering. The first part of the book provides an

overview of gas turbine types, applications and cycles. Part two moves on to explore major components of modern gas turbine systems including compressors, combustors and turbogenerators. Finally, the operation and maintenance of modern gas turbine systems is discussed in part three. The section includes chapters on performance issues and modelling, the maintenance and repair of components and fuel flexibility. Modern gas turbine systems is a technical resource for power plant operators, industrial engineers working with gas turbine power plants and researchers, scientists and students interested in the field. Provides a comprehensive review of gas turbine systems and fundamentals of a cycle Examines the major components of modern systems, including compressors, combustors and turbines Discusses the operation and maintenance of component parts