

Modern Marine Engineers Volume 1 1st Edition

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HUNTER JESUS

A Manual of Marine Engineering Elsevier

Covering both the theoretical and practical aspects of refrigeration and air-conditioning.

Marine Engineering Butterworth-Heinemann

Preparing for Victory explains how and why Commandant Thomas Holcomb successfully supervised the dramatic expansion of the Marine Corps from 18,000 officers and men in 1936 to 385,000 in 1943. Not only did Holcomb leave the Corps much larger, but he also helped establish it as the United States' premier amphibious assault force and a major contributor to victory over Japan. Despite Holcomb's successes, he has been ignored or given short shrift in most histories of the Marine Corps. No book-length study of his commandancy exists until now. Drawing on a wide range of printed and archival sources, my book contends that Holcomb expertly guided the Corps' preparations for war during the last years of the Great Depression and then provided his "Leathernecks" with astute direction during the first harrowing twenty-five months of World War II. When measured with principles of organization theory and leadership studies, Holcomb's abilities and achievements match those of such outstanding American military managers as Dwight D. Eisenhower, Chester W. Nimitz, and George C. Marshall. Like these unassuming yet efficient officers, Holcomb shied away from the limelight and therefore never garnered the attention that "Chesty" Puller or "Howlin' Mad" Smith have. This book fills a void and tells the story of one of the key leaders in World War II. More than any other marine, Holcomb molded his Corps into the modern force-in-readiness that would eventually help fight the Cold War and the Global War on Terror.

The Maritime Engineering Reference Book Bloomsbury Publishing

Humans have always been fascinated by marine life, from extremely small diatoms to the largest mammal that inhabits our planet, the blue whale. However, studying marine life in the ocean is an extremely difficult proposition because an ocean environment is not only vast but also opaque to most instruments and can be a hostile environment in which to perform experiments and research. The use of acoustics is one way to effectively study animal life in the ocean. Acoustic energy propagates in water more efficiently than almost any form of energy and can be utilized by animals for a variety of purposes and also by scientists interested in studying their behavior and natural history. However, underwater acoustics have traditionally been in the domain of physicists, engineers and mathematicians. Studying the natural history of animals is in the domain of biologists and physiologists. Understanding behavior of animals has traditionally involved psychologists and zoologists. In short, marine bioacoustics is and will continue to be a diverse discipline involving investigators from a variety of backgrounds, with very different knowledge and skill sets. The inherent inter-disciplinary nature of marine bioacoustics presents a large challenge in writing a single text that would be meaningful to various investigators and students interested in this field. Yet we have embarked on this challenge to produce a volume that would be helpful to not only beginning investigators but to seasoned researchers.

Marine Auxiliary Machinery Cornell Maritime Press/Tidewater Publishers

First book to give an insight into a growing area of interest - stealth warship technology - which is crucial for future developments in warship construction. It demonstrates the importance of materials used in warship construction and how this influences all of a naval platform's design parameters. Stealth technology is now considered a critical component within warship design, with interest in the concept of stealth increasing around the globe as naval forces adapt to new challenges. Many new developing nations are now implementing their first generation of stealth

technology military hardware. This exciting book explores the full extent of threats to warships and thus the transformational change in naval architecture to incorporate these modern stealth technologies. Discussing the history of stealth technology, with references to well-known aircraft, ships and events in military history, the book also provides readers with a unique opportunity to develop an understanding of the specialist skills required in this naval sector. This is an essential read for anyone interested in stealth design and the issues involved in this evolving technology.

Alphabetical Catalogue of the Navy Department Library Cornell Maritime Press/Tidewater Publishers

Practical Ship Hydrodynamics provides a comprehensive overview of hydrodynamic experimental and numerical methods for ship resistance and propulsion, maneuvering, seakeeping and vibration. Beginning with an overview of problems and approaches, including the basics of modeling and full scale testing, expert author Volker Bertram introduces the marine applications of computational fluid dynamics and boundary element methods. Expanded and updated, this new edition includes: Otherwise disparate information on the factors affecting ship hydrodynamics, combined to provide one practical, go-to resource. Full coverage of new developments in computational methods and model testing techniques relating to marine design and development. New chapters on hydrodynamic aspects of ship vibrations and hydrodynamic options for fuel efficiency, and increased coverage of simple design estimates of hydrodynamic quantities such as resistance and wake fraction. With a strong focus on essential background for real-life modeling, this book is an ideal reference for practicing naval architects and graduate students.

Reeds Vol 1: Mathematics for Marine Engineers Sheridan House, Inc.

This book covers the general engineering knowledge required by candidates for the Department of Transport's Certificates of Competency in Marine Engineering, Class One and Class Two. The text is updated throughout in this third edition, and new chapters have been added on production of fresh water and on noise and vibration. Reference is also provided to up-to-date papers and official publications on specialized topics. These updates ensure that this little volume will continue to be a useful pre-examination and revision text. - Marine Engineers Review, January 1992

Reeds Vol 4: Naval Architecture for Marine Engineers Butterworth-Heinemann

Marine Auxiliary Machinery, Seventh Edition is a 16-chapter text that covers the significant advances in marine auxiliary machinery relevant to the certification of competency examinations. The introductory chapters deal with the basic components of marine machineries, such as propulsion system, heat exchanger, valves, and pipelines. The succeeding chapters describe the pumps and pumping system, specifically the tanker and gas carrier cargo pumps. Considerable chapters are devoted to the operation of machinery's major components, including the propeller shaft, steering gear, auxiliary power, bow thrusters, and stabilizers. Other chapters consider the refrigeration, heating, ventilation, and air conditioning systems. The final chapters tackle the safety system of marine auxiliary machinery, particularly the fire protection, safety, instrumentation, and control systems. This book will prove useful to marine and mechanical engineers.

Marine Engineering Legare Street Press

This book covers the principal topics in applied mechanics for professional trainees studying Merchant Navy Marine Engineering Certificates of Competency (CoC) as well as the core syllabi in applied mechanics for undergraduates studying for BSc, BEng and MEng degrees in marine engineering, naval architecture and other marine technology related programmes. This new edition has been fully updated to reflect the recent changes to the Merchant Navy syllabus and current pathways to a sea-going engineering career, specifically the increased emphasis that has been placed on colleges and universities now responsible for the academic requirements for those

studying for a career in marine engineering. In particular this means the book has been updated to include more information about the general principles and applications of the exercises in the practical world of marine engineering. Each chapter has fully worked examples interwoven into the text, with test examples set at the end of each chapter. Other revisions include examples reflecting modern machines and practice, current legislation and current syllabi.

Modern Marine Internal Combustion Engines Elsevier

The essential textbook for all students preparing for Marine Engineer Officer exams. Covering the theoretical, fundamental aspects of naval architecture, this textbook is aimed at students preparing for the Class 1 and Class 2 Marine Engineer Officer exams. It introduces the foundation themes within naval architecture (hydrostatics, stability, resistance and powering), using worked examples to show how solutions should be presented for an exam. The topics are ordered as they might be in a typical taught module, to aid the use of the book by lecturers as a complement to a course. The text and figures continue to be updated in line with modern practice. Many of the figures are three-dimensional diagrams. The book also includes sample examination questions with worked examples to aid students in their learning. As well as an expanded section on stability that considers inclining experiments, this new edition also factors in changes within the industry as it moves towards Net Zero propulsion. Due to the pace of innovation, students who qualify today will see big changes during their careers, and this edition anticipates this and prepares students for such developments.

Modern Treatment Strategies for Marine Pollution Elsevier

Pounder's Marine Diesel Engines and Gas Turbines, Tenth Edition, gives engineering cadets, marine engineers, ship operators and managers insights into currently available engines and auxiliary equipment and trends for the future. This new edition introduces new engine models that will be most commonly installed in ships over the next decade, as well as the latest legislation and pollutant emissions procedures. Since publication of the last edition in 2009, a number of emission control areas (ECAs) have been established by the International Maritime Organization (IMO) in which exhaust emissions are subject to even more stringent controls. In addition, there are now rules that affect new ships and their emission of CO₂ measured as a product of cargo carried. - Provides the latest emission control technologies, such as SCR and water scrubbers - Contains complete updates of legislation and pollutant emission procedures - Includes the latest emission control technologies and expands upon remote monitoring and control of engines

Modern Marine Engineer's Manual Bloomsbury Publishing

The ever-growing demand for commercial activities at sea has meant that ships are rapidly developing and that the rules governing their construction and operation are changing. Practical Ship Design records these changes, their outcomes and the reasoning behind them. It deals with every aspect of ship design and handles a wide range of both merchant ships and naval ships with authority. It provides coverage of cargo ships and passenger ships, tugs, dredgers and other service craft. It also includes concept design, detail design, structural design, hydrodynamics design, the effect of regulations, the preparation of specifications and matters of costs and economics. Drawing on the author's extensive practical experience, Practical Ship Design is likely to interest everybody involved in the design, construction, repair and operation of ships. Students and the most experienced professionals will all benefit from the book's vast store of design data and its conclusions and recommendations.

The Marine Electrical and Electronics Bible Springer

This exciting new edition covers the core subject areas of arithmetic, algebra, mensuration in 2D and 3D, trigonometry and geometry, graphs, calculus and statistics and probability for Marine Engineering students. Initial examples have been designed purely to practise mathematical

technique and, once these skills have been mastered, further examples focus on engineering situations where the appropriate skills may be utilised. The practical questions are primarily from a marine engineering background but questions from other disciplines, such as electrical engineering, will also be covered, and reference made to the use of advanced calculators where relevant.

Pounder's Marine Diesel Engines and Gas Turbines St. John's Press

This book offers a comprehensive and timely overview of internal combustion engines for use in marine environments. It reviews the development of modern four-stroke marine engines, gas and gas-diesel engines and low-speed two-stroke crosshead engines, describing their application areas and providing readers with a useful snapshot of their technical features, e.g. their dimensions, weights, cylinder arrangements, cylinder capabilities, rotation speeds, and exhaust gas temperatures. For each marine engine, information is provided on the manufacturer, historical background, development and technical characteristics of the manufacturer's most popular models, and detailed drawings of the engine, depicting its main design features. This book offers a unique, self-contained reference guide for engineers and professionals involved in shipbuilding. At the same time, it is intended to support students at maritime academies and university students in naval architecture/marine engineering with their design projects at both master and graduate levels, thus filling an important gap in the literature.

Ship Construction and Welding Elsevier

Developed to complement Reeds Vol 8 (General Engineering for Marine Engineers), this indispensable textbook comprehensively covers the motor engineering syllabus for marine engineering officer cadets. Starting with the theoretical and practical thermodynamic operating cycles, the book is structured to give a description of the engines and components used to extract energy from fossil fuels and achieve high levels of efficiency. Accessibly written and clearly illustrated, this book is the only guide available for marine engineering students focusing on the knowledge needed for passing the motor engineering certificate of Competency (CoC) examinations. This new edition reflects all developments within the discipline and includes updates and additions on, amongst other things: · Engine emissions and control engineering · Fuel injection · Starting and reversing · Ancillary supply systems · Safety and the environment Plus updates to many of the technical engineering drawings.

Springer Handbook of Ocean Engineering Cornell Maritime Press/Tidewater Publishers

Volume II of the manual that has been absolutely indispensable to the ship's engineer for over forty years was completely updated by a team of practicing marine engineers in 1991. Chapters on obsolete equipment were deleted; those on systems that are still current were updated; and new chapters were written to cover the innovations in materials, machines, and operating practices that evolved recently.

Practical Ship Design Routledge

Developed to complement Reeds Vol 12 (Motor Engineering for Marine Engineers), this textbook is key for all marine engineering officer cadets. Accessibly written and clearly illustrated, General Engineering Knowledge for Marine Engineers takes into account the varying needs of students studying 'general' marine engineering, recognising recent changes to the Merchant Navy syllabus and current pathways to a sea-going engineering career. It includes the latest equipment, practices and trends in marine engineering, as well as incorporating the 2010 Manila Amendments, particularly relating to management. It is an essential buy for any marine engineering student. This new edition reflects all developments within the discipline and includes updates and additions on, amongst other things: · Corrosion, water treatments and tests · Refrigeration and air conditioning · Fuels, such as LNG and LPG · Insulation · Low sulphur fuels · Fire and safety Plus updates to many of the technical engineering drawings.

Reeds Vol 2: Applied Mechanics for Marine Engineers Bloomsbury Publishing

This book addresses various aspects of ship construction, from ship types and construction materials, to welding technologies and accuracy control. The contents of the book are logically organized and divided into twenty-one chapters. The book covers structural arrangement with longitudinal and transverse framing systems based on the service load, and explains basic structural elements like hatch side girders, hatch end beams, stringers, etc. along with structural subassemblies like floors, bulkheads, inner bottom, decks and shells. It presents in detail double bottom construction, wing tanks & duct keels, fore & aft end structures, etc., together with necessary illustrations. The midship sections of various ship types are introduced, together with structural continuity and alignment in ship structures. With regard to construction materials, the book discusses steel, aluminum alloys and fiber reinforced composites. Various methods of steel material preparation are discussed, and plate cutting and forming of plates and sections are explained. The concept of line heating for plate bending is introduced. Welding power source characteristics, metal transfer mechanisms, welding parameters and their effects on the fusion zone, weld deposit, and weld bead profile are discussed in detail. Various fusion welding methods, MMAW, GMAW, SAW, Electroslag welding and Electrogas welding and single side welding are explained in detail. Friction stir welding as one of the key methods of solid state welding as applied to aluminum alloys is also addressed. The mechanisms of residual stress formation and distortion are explained in connection with stiffened panel fabrication, with an emphasis on weld induced buckling of thin panels. Further, the basic principles of distortion prevention, in-process distortion control and mitigation techniques like heat sinking, thermo-mechanical tensioning etc. are dealt with in detail. In its final section, the book describes in detail various types of weld defects that are likely to occur, together with their causes and remedial measures. The nondestructive testing methods that are most relevant to ship construction are explained. Lastly, a chapter on accuracy control based on statistical principles is included, addressing the need for a suitable mechanism to

gauge the ranges of variations so that one can quantitatively target the end product accuracy. **Ship Automation** Springer Nature

The Maritime Engineering Reference Book is a one-stop source for engineers involved in marine engineering and naval architecture. In this essential reference, Anthony F. Molland has brought together the work of a number of the world's leading writers in the field to create an inclusive volume for a wide audience of marine engineers, naval architects and those involved in marine operations, insurance and other related fields. Coverage ranges from the basics to more advanced topics in ship design, construction and operation. All the key areas are covered, including ship flotation and stability, ship structures, propulsion, seakeeping and maneuvering. The marine environment and maritime safety are explored as well as new technologies, such as computer aided ship design and remotely operated vehicles (ROVs). Facts, figures and data from world-leading experts makes this an invaluable ready-reference for those involved in the field of maritime engineering. Professor A.F. Molland, BSc, MSc, PhD, CEng, FRINA, is Emeritus Professor of Ship Design at the University of Southampton, UK. He has lectured ship design and operation for many years. He has carried out extensive research and published widely on ship design and various aspects of ship hydrodynamics.* A comprehensive overview from best-selling authors including Bryan Barrass, Rawson and Tupper, and David Eyres* Covers basic and advanced material on marine engineering and Naval Architecture topics* Have key facts, figures and data to hand in one complete reference book

Modern Marine Engineer's Manual Springer Science & Business Media

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.

Modern Marine Engineering Elsevier

Covers the principal topics in electrotechnology for Marine Engineering Certificates of Competency (CoC) as well as the core syllabi for undergraduates studying for BSc, BEng and MEng degrees in marine engineering and electrical engineering.