

## Reeds Marine Engineering

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Reeds Vol 3: Applied Thermodynamics for Marine Engineers Elsevier

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.

Reeds Vol 2: Applied Mechanics for Marine Engineers Bloomsbury Publishing

This indispensable guide to ship stability covers essential topics such as flotation and buoyancy, small angle, large angle and longitudinal stability, water density effects, bilging, ship resistance, and advanced hydrostatics. Each chapter has a comprehensive list of aims and objectives at the start of the topic, followed by a checklist at the end of the topic for students to ensure that they have developed all the relevant skills before moving onto the next topic area. The book features over 170 worked examples with fully explained solutions, enabling students to work through the examples to build up their knowledge and develop the necessary key skills. The worked examples, which range in difficulty from very simple one-step solutions to SQA standard exam questions and above, are predominantly based on a hypothetical ship. The reader is supplied with extracts from a typical data book for the ship which replicates those found on actual ships, enabling the reader to develop and practise real-life skills. This edition has been fully updated in line with the recently changed rules and regulations

around ship stability and the updated national exam syllabus. Updates include corrections and clarifications to worked examples, new text on damaged stability and probabilistic stability, extra content on hydrostatic forces and centres of pressure, and extra content on stability information for small craft.

*Reeds Marine Engineering and Technology Series* Bloomsbury Publishing  
Introduction to Marine Engineering explains the operation of all the ship's machinery, with emphasis on correct, safe operating procedures and practices at all times. Organized into 17 chapters, this book begins with an overall look at the ship. Subsequent chapters describe the various ship machineries, including diesel engines, steam turbines, boilers, feed systems, pumps, auxiliaries, deck machinery, hull equipment, shafting, propellers, steering gear, and electrical equipment. Other aspects of marine engineering, particularly, fuel oils, lubricating oils, refrigeration, air conditioning, ventilation, firefighting and safety, watchkeeping, and equipment operation, are also described. This book will be useful to anyone with an interest in ships' machinery or a professional involvement in the shipping business.

Reeds Vol 10: Instrumentation and Control Systems Thomas Reed

Introduction to concepts of ship stability, resistance and powering relevant to marine professionals, including naval architects and merchant navy deck and engineering officers.

*Reeds Vol 5: Ship Construction* Thomas Reed

This book is a companion to Volume 8 - General Engineering Knowledge" in the "Reed's Marine Engineering Series", and is based on the DoT syllabus of Engineering Knowledge for the Class 2 and Class 1 Engineers Steam Certificates and Steam Endorsements. It includes a selection of questions of the type set in the exams for Class 2 and Class 1 Engineers."

Reeds Vol 2: Applied Mechanics for Marine Engineers A&C Black

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 8 General Engineering Knowledge for Marine Engineers A & C** Black

Marine Auxiliary Machine: Sixth Edition explains the correct operation and maintenance of marine auxiliary machinery. The book discusses topics such as the arrangements of the engine and boiler room; pipes and fittings and pumps; compressors and separators; and heat exchangers - its types, control of temperature, and maintenance. The book also talks about other machineries such as diesel engines, steam turbines, propellers, and gears; refrigeration and air conditioning systems; deck machinery; and safety equipment. The text is recommended for engineers in ships who would like to know more about the auxiliary machines onboard ships, how they are operated, and the principles behind them.

**Motor Engineering Knowledge for Marine Engineers** Bloomsbury Publishing

This book covers the syllabuses in Applied Mechanics for all classes of the Marine Engineers' Certificates of Competency of the Department of Transport. It will also be useful to students on BTEC and SCOTVEC engineering courses. Basic principles are dealt with beginning at a fairly elementary stage. Each chapter has fully worked examples interwoven into the text, test examples are set at the end of each chapter, and some typical exam questions are included. The prefix 'f' is used to indicate those parts of the text, and some test examples, which are of Class 1 standard.

**Reeds Vol 13: Ship Stability, Powering and Resistance** Thomas Reed

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.

**Motor Engineering Knowledge for Marine Engineers** Bloomsbury Publishing

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.

**Reeds Vol 7: Advanced Electrotechnology for Marine Engineers** Reeds

This is based on the Naval Architecture syllabuses for the Certificate of Competency for Class 2 and Class 1 Marine Engineer Officer, administered on behalf of the UK Department of Transport. Ideal preparation for the course and the exam.

**Reeds Vol 4: Naval Architecture** Reeds

This authoritative textbook will cover the principal topics in thermodynamics for officer cadets studying Merchant Navy Marine Engineering Certificates of Competency (CoC) as well as the core syllabi in thermodynamics for undergraduate students in marine engineering, naval architecture and other marine technology related programmes. It will cover the laws of thermodynamics and of perfect gases, their principles and application in a marine environment. This new edition will be fully updated to reflect the recent changes to the Merchant Navy syllabus and current pathways to a sea-going engineering career, including National Diplomas, Higher National Diploma and degree courses. This new content will focus on how the the formulae and calculations apply to the actual workplace, and these updates will open up the potential market in the UK as well as appealing to more of the international market. Each chapter has fully worked examples interwoven into the text, with test examples at the end of each chapter. Other revisions include new material on combined steam and motor propulsion systems, expanded sections on different IC engine cycles, information on the modern use of steam and gas turbines for the production of electrical power, and more.

**Reeds Vol 4: Naval Architecture for Marine Engineers** Adlard Coles

This book is a companion to Reeds Vol. 6: Basic Electrotechnology for Marine Engineers and covers aspects of theory beyond the scope of Volume 6. The book will cover the more advanced topics in electrotechnology for professional trainees studying Merchant Navy Marine Engineering Certificates of Competency (CoC) as well as the syllabi in electrotechnology for undergraduates studying for BSc, BEng and MEng degrees in marine engineering and electrical engineering. The new edition provides worked examples and test exam questions, corresponding to current Merchant Navy Qualifications. Other revisions will include new material on emerging technology areas such as image intensifiers (photoelectric effect, secondary emission), thermal imaging cameras, radar, increased maritime use of LEDs, various semiconductor physics devices including the laser, as well as discussions of binary or digital theory.

**Motor Engineering Knowledge for Marine Engineers** Thomas Reed

Caters for marine engineer candidates for Department of Transport Certification as Marine Engineer Class One and Class Two. It covers the various items of ships' electrical equipment and explains operating principles. David McGeorge is a former lecturer in Marine Engineering at the College of Maritime Studies, Warsash, Southampton. He is the author of General Engineering Knowledge.

**Reeds Vol 9: Steam Engineering Knowledge for Marine Engineers** Bloomsbury Publishing

This authoritative textbook covers ship construction techniques and methods for all classes of the Merchant Navy marine deck and engineering Certificates of Competency (CoC) as well as students studying for degrees and diplomas in Naval Architecture and Marine Engineering. It is complementary to Reeds Vol 4 (Naval Architecture) and Reeds Vol 8 (General Engineering Knowledge). This fully revised edition prioritises the need of these students, recognising recent syllabus changes and current pathways to a sea-going engineering career, with the increased emphasis on academic content to be delivered by colleges and universities. The text has been updated and expanded to reflect recent developments in techniques and materials used, and related changes in ship design, including sample examination questions and worked example answers throughout.

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**Reeds Vol 13: Ship Stability, Powering and Resistance** Bloomsbury Publishing

The essential coursebook for all students studying general marine engineering.

**Reeds Vol 12 Motor Engineering Knowledge for Marine Engineers** Thomas Reed  
Developed to compliment Volume 8 (General Engineering Knowledge) and work as an examination guide for the requirements of the IMO's Engineering Knowledge under regulation III/2, covering the syllabuses followed by Chief Engineers and 2nd Engineers, this book helps officer cadets working toward the STCW Officer of the Watch qualification or equivalent academic award. 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 productivity. The book covers areas that have the potential to affect engine efficiency and emissions including new electronic control systems, fuel injection and efficient turbocharging. It also looks at waste heat recovery, an important development area for improving the environmental impact of ocean going vessels. It also considers new technology and individual components within the engine which means that more energy, left over from the combustion process, can be extracted and used to improve the total thermal efficiency. The book evaluates issues of safety and environment, highlighting why the new technology must work correctly at all times and why it is necessary that engineering staff onboard understand its operation as well the consequences of any malfunction. This key textbook takes into account the varying needs of students studying motor engineering, recognising recent changes to the Merchant Navy syllabus and current pathways to a sea-going engineering career, including National diplomas, Higher National Diploma and degree courses.

**Reeds Vol 8 General Engineering Knowledge for Marine Engineers** Butterworth-Heinemann

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.

Reeds Vol 5: Ship Construction for Marine Engineers Bloomsbury Publishing

Ship Construction for Marine Students covers the majority of the descriptive work in the Syllabus for Naval Architecture in Part B of the Department of Transport exams for Class 1 and Class 2 Engineers, together with the ship construction content of the General Engineering Knowledge papers. It is also useful for those studying for Mate and Master examinations. This book gives an indication of typical methods of construction in a concise manner with plenty of illustrations, and also includes typical examination questions to aid revision.

**Reeds Vol 1: Mathematics for Engineers** A&C Black

Within the marine and offshore industry, there is a clear and growing need for increased training and education on the use of electrical power systems. The number of electrical plant and appliances now in service has grown at an alarming rate in recent years, as has the amount of electrical power generated

and utilised on board. Large passenger ships now carry as many electrical officers as marine engineers, and electrical propulsion is now in common use by LNG carriers, small parcel tankers, oil tankers, ferries, offshore support, the navy, fleet auxiliary, cable layers and cruise ships. A number of shipping companies now award the Chief Electro Technical Officer the equivalent rank to the ship's master and Chief Engineer. These developments have resulted in the establishment of a Foundation Degree programme for Electro Technical Officers and the current development of full degree programmes. As such, a targeted textbook for students on the subject is required. As with all titles in the Reeds Marine Engineering Series, this book will be written in clear, accessible language, so as to be of use to all students and particularly those for whom English isn't their first language. Technical drawings and diagrams will be used throughout and each chapter will be accompanied by example examination questions.