

## Reeds Marine Engineering Series

Reed's Sextant Simplified  
 Reed's Steam Engineering Knowledge for Marine Engineers  
 Reeds Vol 5: Ship Construction for Marine Engineers  
 Reeds Vol 12 Motor Engineering Knowledge for Marine Engineers  
 Reeds Vol 2: Applied Mechanics for Marine Engineers  
 Marine Boilers  
 Marine Propulsion Machinery Vibration  
 The Marine Engineering Series  
 Introduction to Marine Engineering  
 Reeds Vol 3: Applied Thermodynamics for Marine Engineers  
 Reeds Vol 8 General Engineering Knowledge for Marine Engineers  
 Reeds Vol 16: Electrical Power Systems for Marine Engineers  
 Reed's Naval Architecture for Marine Engineers  
 Reeds Vol 12 Motor Engineering Knowledge for Marine Engineers  
 Reeds Vol 7: Advanced Electrotechnology for Marine Engineers  
 Reeds Vol 16: Electrical Power Systems for Marine Engineers  
 Reeds Vol 3: Applied Heat  
 Reeds Vol 2: Applied Mechanics for Marine Engineers  
 General Engineering Knowledge  
 Reeds Vol 4: Naval Architecture  
 Reeds Vol 5: Ship Construction  
 Reeds Vol 1: Mathematics for Marine Engineers  
 Marine Auxiliary Machinery  
 Reeds Vol 8 General Engineering Knowledge for Marine Engineers  
 Reeds Vol 2: Applied Mechanics for Marine Engineers  
 Reeds Vol 13: Ship Stability, Powering and Resistance  
 Reeds Vol 6: Basic Electrotechnology for Marine Engineers  
 Reeds Vol 9: Steam Engineering Knowledge for Marine Engineers  
 Reeds Vol 12: Motor Engineering Knowledge for Marine Engineers  
 Reeds Marine Engineering and Technology Series  
 Reeds Vol 6: Basic Electrotechnology for Marine Engineers  
 Reeds Vol 15: Electronics, Navigational Aids and Radio Theory for Electrotechnical Officers  
 Marine Electrical Equipment and Practice  
 Diesel Engines  
 Reeds Vol 11: Engineering Drawing  
 Marine Auxiliary Machinery  
 Reeds Vol 10: Instrumentation and Control Systems  
 Reeds Vol 2: Applied Mechanics  
 Engineering Drawing for Marine Engineers

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### **BARKER HOBBS**

*Reed's Sextant Simplified* Bloomsbury Publishing  
 The 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. The revised version takes into account the need of these students, 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. Basic principles are dealt with, beginning at a fairly elemental stage, with this new edition applying the underlying principles to a shipping environment. 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.

**Reed's Steam Engineering Knowledge for Marine Engineers** Elsevier

Volume four of Reed's Marine Engineering Series" is based on the Naval Architecture syllabuses for the Certificate of Competency for Class 2 and Class 1 Marine Engineer Officers, administered on behalf of the UK Department of Transport and SCOTVEC. Explanatory diagrams and worked examples should assist the student to assimilate the principles, and typical exam questions should test knowledge."

**Reeds Vol 5: Ship Construction for Marine Engineers** Reeds

This book provides a comprehensive coverage of the basic theoretical work required by marine engineering officers and electrotechnical officers (ETOs), putting into place key fundamental building blocks and topics in electrotechnology before progressing to more complex topics and electromagnetic systems. Revisions will include important new material on emergent technology such as image intensifiers, the increased maritime use of LEDs, examples of ship systems including power distribution systems, and references to modern ship systems, eg. GPS, ECDIS, Radar, AIS, Comms outfits, etc. This essential text offers a truly rigorous approach to the key topic of electrotechnology.

**Reeds Vol 12 Motor Engineering Knowledge for Marine Engineers** Butterworth-Heinemann

Reeds Vol 8 General Engineering Knowledge for Marine Engineers Bloomsbury Publishing

**Reeds Vol 2: Applied Mechanics 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.

*Marine Boilers A & C* Black

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."

#### Marine Propulsion Machinery Vibration Reed's Almanac

This book was compiled to assist students studying for the Department of Trade Engineering Drawing examination for a First and Second Class Certificate of Competency. It will also benefit anyone studying for the Engineering Knowledge paper in Part B of the exam. The DoT requirements differ from standard drawing office practice. In order to determine the engineering knowledge of a candidate, a general assembly drawing is required. Details of the drawing are given in the form of dimensioned pictorial views of the individual components for an item of marine engineering machinery. The candidate's skill as a draughtsman is judged from his attempt at the drawing. It is expected that the particular piece of machinery could be manufactured from the drawing, which necessitates inserting dimensions on a general assembly drawing - a practice not common elsewhere. This established textbook will assist students through the course.

#### **The Marine Engineering Series** Elsevier

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.

#### *Introduction to Marine Engineering* 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 3: Applied Thermodynamics for Marine Engineers Bloomsbury Publishing

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.

#### *Reeds Vol 8 General Engineering Knowledge for Marine Engineers* Routledge

This book provides comprehensive coverage of the basic theoretical work required by Marine Engineering Officers and Electrotechnical Officers (ETOs), putting into place key fundamental building blocks and topics in electrotechnology before progressing to more complex topics and electromagnetic systems. Volume 6 covers essential basic electrotechnology principles for the 21st century, including the fundamentals of electron theory, AC and DC current, circuits, electromagnetism and electrochemistry, providing a firm foundation for complementary Volume 7 in the Marine Engineering Series to discuss emergent technology such as image intensifiers, the transistor, increased maritime use of LEDs, and references to modern ship systems such as GPS, ECDIS, Radar and AIS. This new edition has been thoroughly updated in line with guidelines, best practice and the many technological developments that have taken place over the past 5 years since the previous edition published, as well as improvements and updates to the technical diagrams.

#### Reeds Vol 16: Electrical Power Systems for Marine Engineers A&C Black

This is a fully revised, new edition on the topic of instrumentation and control systems and their application to marine engineering for professional trainees studying Merchant Navy Marine Engineering Certificates of Competency (CoC) as well as Electrical/Marine Engineering undergraduate students. Providing generic technical and practical descriptions of the operation of instrumentation and control devices and systems, this volume also contains mathematic analysis where appropriate. Addressing this subject area, the domain of Instrumentation Engineers/Technicians as well as Control Engineers, and covering established processes and protocols and extensive developing technology, this textbook is written with the marine engineer in mind, particularly those studying Engineering Knowledge. The content ranges from simple measurement devices, through signal conditioning and digitisation to highly sophisticated automated control and instrumentation systems. It also includes a brand new section on electrical equipment in hazardous areas detailing hazards, gas groups, temperature classifications and types of protection including increased and intrinsic safety and encapsulation, and up-to-date material on the new generation of Liquefied Natural Gas carriers, SMART sensors and protocols, as well as computer based systems.

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- Aapc 2023 Cpc Study Guide : [click here](#)

#### Reed's Naval Architecture for Marine Engineers Elsevier

This book covers 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. The book provides a firm foundation in the principals of thermodynamics, decoding the fundamental science and physics applied to marine technology, covering examples of modern machines and practice to reflect current legislation and syllabi. The new edition will provide worked examples and test exam questions, corresponding to current Merchant Navy Qualifications as well as university-style examinations. Where relevant, reference will be made to self-study computer exercises for undertaking multiple calculations in common software, e.g. MS Excel. This key textbook takes into account the varying needs of marine students, 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 12 Motor Engineering Knowledge for Marine Engineers A&C Black

A new title in the highly respected Reeds Marine Engineering Series, in response to the increasing reliance on electrical power systems in the marine and offshore industry. Large passenger ships now carry as many electrical officers as marine engineers, 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, and 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.

#### **Reeds Vol 7: Advanced Electrotechnology for Marine Engineers** A&C Black

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 16: Electrical Power Systems for Marine Engineers Sheridan House, Inc.

Marine Boilers, Third Edition provides practical information about boilers and other relevant equipment used at sea on steam and motor vessels. The coverage of the book includes auxiliary boilers, water tube boilers, and boiler mountings. The text also covers stresses in boiler shells; combustion of fuel in boilers; and boiler operation. The book will be of great use to marine engineers, mechanics, and technicians who primarily deals with marine-related machineries.

#### **Reeds Vol 3: Applied Heat** 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 2: Applied Mechanics for Marine Engineers* Bloomsbury Publishing

Assisting students studying for Engineering Drawing examination set by the DoT for a Second Class Certificate of Competency, this book should also benefit those studying for Engineering Knowledge papers in Part B of the exam.

#### **General Engineering Knowledge** Bloomsbury Publishing

This textbook covers the theoretical, fundamental aspects of naval architecture for students preparing for the Class 2 and Class 1 Marine Engineer Officer exams. It introduces the basic 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 in a manner of a typical taught module, to aid the use of the book by lecturers as a compliment to a course. Importantly, this updated edition contains updated text and figures in line with modern practice, including an update of many of the figures to three-dimensional diagrams, and a new section on computer software for naval architecture. The book also includes sample examination questions with worked examples answers to aid students in their learning.

#### *Reeds Vol 4: Naval Architecture* Bloomsbury Publishing

This textbook covers ship construction techniques and methods for all classes of Merchant Navy marine deck and engineering Certificates of Competency (CoC) as well as Undergraduate students studying Naval Architecture and Marine Engineering. It is complementary to Volume 4 (Naval Architecture) and Volume 8 (General Engineering Knowledge). Importantly, this new edition contains up-to-date information on modern shipyards, dry-docking procedures and methods of construction. Extensively illustrated, the book also includes sample examination questions with worked examples answers to aid students in their learning.