
Reeds Marine Engineering Series

Marine Electrical Equipment and Practice

Reeds Vol 14: Stealth Warship Technology

Reeds Vol 7: Advanced Electrotechnology

Reeds Vol 13: Ship Stability, Powering and Resistance

Reed's Steam Engineering Knowledge for Marine Engineers

Reeds Vol 3: Applied Thermodynamics for Marine Engineers

Reeds Vol 6: Basic Electrotechnology for Marine Engineers

Reeds Mathematical Tables and Engineering Formulae

Reeds Vol 1: Mathematics for Marine Engineers

Reeds Vol 4: Naval Architecture

Reeds Vol 1: Mathematics for Engineers

Reeds Vol 8 General Engineering Knowledge for Marine Engineers

Reeds Vol 10: Instrumentation and Control Systems

Reeds Vol 16: Electrical Power Systems for Marine Engineers

Engineering Drawing

Marine Auxiliary Machinery

Reeds Vol 2: Applied Mechanics

Reeds Vol 5: Ship Construction for Marine Engineers
Reed's General Engineering Knowledge for Marine Engineers
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General Engineering Knowledge
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Reeds Marine Engineering and Technology Series
Motor Engineering Knowledge for Marine Engineers
Reeds Vol 2: Applied Mechanics for Marine Engineers
Reeds Vol 8: General Engineering Knowledge for Marine Engineers
Reeds Vol 5: Ship Construction for Marine Engineers
Reeds Vol 7: Advanced Electrotechnology for Marine Engineers
Reed's Steam Engineering Knowledge for Marine Engineers
Reed's Applied Mechanics for Engineers
Motor Engineering Knowledge for Marine Engineers
Reeds Vol 12: Motor Engineering Knowledge for Marine Engineers
Reeds Vol 13: Ship Stability, Powering and Resistance
Reeds Vol 4: Naval Architecture for Marine Engineers
Introduction to Marine Engineering

Reeds Vol 12 Motor Engineering Knowledge for Marine Engineers
Reed's General Engineering Knowledge for Marine Engineers
Reeds Vol 6: Basic Electrotechnology for Marine Engineers

*Reeds Marine
Engineering Series*

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HOGAN WELLS

Marine Electrical Equipment and Practice

Bloomsbury Publishing

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.

Reeds Vol 14: Stealth Warship

Technology 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 7: Advanced

Electrotechnology A&C Black
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 13: Ship Stability, Powering and Resistance Thomas Reed

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.

Reed's Steam Engineering Knowledge for Marine Engineers Thomas Reed
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.

Reeds Vol 3: Applied Thermodynamics for Marine Engineers Elsevier

The essential coursebook for all students studying general marine engineering. General Engineering Knowledge for Marine Engineers considers the different needs of those studying 'general' marine engineering, including the most recent changes to the Merchant Navy syllabus and current pathways to a sea-going engineering career. Accessibly written and clearly illustrated with technical engineering drawings, it covers all the latest equipment, practices and trends in marine engineering. It incorporates the 2010 Manila Amendments, particularly relating to management. This latest edition reflects all the developments in the field, including updates and

additions on, amongst other things: - Sustainable ships systems - Hybrid power and energy management systems - Battery technology and hydrogen fuel cells - Biofuels - Waste heat recovery - Corrosion of metals in sea water - SOLAS rules on steering ships - Electric vehicle battery fires The book includes test examples for student self-assessment, and these have also been reviewed and updated to ensure this volume remains current.

Reeds Vol 6: Basic Electrotechnology for Marine Engineers 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.

Reeds Mathematical Tables and Engineering Formulae Reed's

Almanac

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 1: Mathematics for Marine Engineers A&C Black

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 4: Naval Architecture

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 Vol 1: Mathematics for Engineers A&C Black

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.

Reeds Vol 8 General Engineering Knowledge for Marine Engineers

Reeds

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 10: Instrumentation and

Control Systems Thomas Reed Publications

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.

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

Black

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.

Engineering Drawing Reed's Almanac 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.

Marine Auxiliary Machinery A&C

Black

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.

Reeds Vol 2: Applied Mechanics

Bloomsbury Publishing

Annotation This book contains invaluable reference tables and maths formulae for trainee and professional marine engineers. Focussing on subjects most commonly required in mechanical and marine engineering (including a section on naval architecture), the formulae are graduated to cover the subjects at all stages from technician level to degree, from cadet level to the Extra First Class

Certificate. After each subject, there are blank pages in which extra design data and formulae can be added, and where the understanding of basic concepts is particularly essential, the text includes extra definitions and notes, all of which helps to create a user-friendly and practical resource.

Reeds Vol 5: Ship Construction for Marine Engineers Reed's Almanac

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.

Reed's General Engineering Knowledge for Marine Engineers Adlard Coles

An authoritative guide to modern equipment found in merchant ships focusing on 'motor' propulsion for marine engineers.

Reeds Vol 3: Applied Heat Bloomsbury Publishing

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.