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# Basic Electrotechnology For Marine Engineers

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Marine Electrical Equipment and Practice  
UNESCO

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 7: Advanced Electrotechnology for Marine Engineers**  
Bloomsbury Publishing

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.

**Advanced Electrotechnology for Marine Engineers** Thomas

Reed

Divided into three sections, the book covers the complete syllabus for Electrotechnology Officers as

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specified by the Association of Marine Electronic and Radio Colleges (AMERC), with a series of worked examples and self-study questions to assist in student understanding. The book introduces basic electronics, the theory of how a range of navigational aids works, and radio communications including GMDSS. Fault find to component and sub system level is also included. Importantly, this is the first textbook to be aimed primarily at ETOs, covering the changes to the STCW 2010. An essential buy.

**Basic Electrotechnology** 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.

**Diesel Engines** Routledge

This book covers diesel engine theory, technology, operation and maintenance for candidates for the Department of Transport's Certificates of Competency in Marine Engineering, Class One and Class Two. The book has been updated throughout to include new engine types and operating systems that are currently in active development or recently introduced.

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

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.

**Advanced Electrotechnology 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. This new edition has been extensively updated to include the latest equipment, practices and trends in marine engineering, as well as incorporating the 2010 Manila Amendments, particularly relating to Management. Accessibly written and

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clearly illustrated, this book is the core guide focusing on the knowledge needed for passing the engineering certificate of Competency (CoC) examinations. 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. An essential buy for any marine engineering student.

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

The role of an engineer onboard a modern vessel is multifaceted and requires knowledge and application of multiple engineering disciplines. Also, almost every piece of equipment is either controlled by or fed with electrical power. This book caters to the structured syllabi for Marine Engineering Pre-sea Students, Marine Engineers of all post-sea competency levels and Electro Technical Officers of the Merchant Navy. It can also be used as a reference book in libraries ashore and onboard ships. Comprising of 26 chapters

in simple English, it explains not only the fundamentals but also the constructional features, operating principles, maintenance procedures and rules that govern the safe operation of all important electrical systems onboard a commercial ship. Extracts from SOLAS Regulations, IACS Guidelines, Lloyd's Register, Det Norske Veritas and American Bureau of Shipping Rules, have been included with permission. Many world-class organisations and manufacturers have extended their invaluable support and enriched the content too. The Teaching Guide at the beginning of this book suggests a standard teaching methodology. The question bank, with a total of over 1000 questions, covers all topics that have been explained. This edition also contains more than 500 relevant figures, including photographs that have been contributed by leading equipment manufacturers across the world. About the Author Elstan A. Fernandez, who is a specialist in Marine Control Systems, has also authored the book on Marine Electrical Technology. Having shared his experienced with The Great Eastern Institute of Maritime Studies, Lonavla, as Electrical and Laboratory

Superintendent, also a Faculty in Electrical Engineering. Further he was also affiliated to Tolani Maritime Institute as senior lecturer, he was also a foreign expert to Shanghai Maritime University, China. He has the honor of being the first Indian as Resident Faculty at Merchant Marine College, SMU.

Reeds Vol 6: Basic Electrotechnology 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

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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.

Marine Electrical, Practice Reeds Vol 6: Basic Electrotechnology for Marine Engineers  
A companion to Volume 6 (Basic Electrotechnology for Engineers) this book covers more aspects of the theory of Electrotechnology. The syllabus is close to that of Electrical Engineering for Marine Engineer Cadets (Phase 3) of the Alternative Training Scheme and covers more fully the requirements of the DoT syllabus for Class 1 and Class 2 Marine Engineers. Students studying for the Extra First Class Engineers' Certificate will also find it of value. It anticipates future extensions of these syllabuses and deals with brushless AC generators, excitation systems for marine alternators, and semiconductor theory relating to the diode, transistor and the thyristor. Numerous fully-worked problems are included in the text as well as test examples and typical examination questions with solutions.

General Engineering Knowledge Elsevier  
This sixth volume of Reed's Marine Engineering

Series is based principally upon the Electrotechnology syllabuses for Class 1 and Class 2 Engineers. It is also suitable for Marine Engineering cadets studying the Electrical Engineering Principles unit of the BTEC programme. The book follows the same pattern as the other volumes in this series which has proved so successful ie emphasis on basic principles, extensive illustrations, worked examples included in the text, practice examples at the end of each chapter and finally, selections of Class 1 and Class 2 exam questions. Fully worked step by step solutions to every problem are provided which will prove especially helpful to Engineers studying at sea. Reeds Vol 6: Basic Electrotechnology for Marine Engineers Bloomsbury Publishing 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."

Marine Auxiliary Machinery Bloomsbury Publishing

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 15: Electronics, Navigational Aids and Radio Theory for Electrotechnical Officers A&C Black  
This indispensable guide to ship stability covers 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, with the reader supplied with extracts from a typical data book for the ship which replicates those found on real ships, enabling the reader to develop and practise real-life skills.

Reeds Vol 7: Advanced Electrotechnology Elsevier  
Reeds Introductions: Physics Wave Concepts for Marine Engineering Applications covers the fundamental theoretical maritime physics concepts which underpin electromagnetic wave and sonar principles as developed in most maritime-related courses, whether Naval, Coastguard or Merchant Marine engineering. For these reasons it is vital that maritime users have a basic understanding of the concepts upon which many essential modern sea-going sensors and communications devices now operate. Knowledge regarding electromagnetic waves and electromagnetic devices is an established merchant navy sea service requirement, particularly for the Standards in Training and Certification in Watchkeeping

(STCW95) qualification in various Maritime Coastguard Agency exams, e.g. Marine Electrotechnology (as Chief Engineer and Second Engineer), as mandated by the UK Department for Transport. This short introductory book is written as simply as possible to support growing numbers of overseas students for whom English is not their first language. This volume provides a comprehensive study of maritime physics principles and provides a firm foundation prior to reading and studying of the following Reeds Marine Engineering series: Vols 1, 3, 6, 7, 14 and 15. Students having read this easy-to-read volume will be better prepared for the more in depth study of the other volumes listed.  
Marine Electrical Technology, 4/e H/C  
Bloomsbury Publishing  
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.

### Marine Electrical Technology, 7th Edition 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.

Reeds Vol 2: Applied Mechanics for Marine

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Engineers Bloomsbury Publishing  
Reeds Vol 6: Basic Electrotechnology for  
Marine Engineers Bloomsbury Publishing  
Reeds Vol 8 General Engineering  
Knowledge for Marine Engineers Arizona  
Business Alliance

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 Vol 4: Naval Architecture for Marine Engineers Elsevier

A practical treatment of power system design within the oil, gas, petrochemical and offshore industries. These have significantly different

characteristics to large-scale power generation and long distance public utility industries. Developed from a series of lectures on electrical power systems given to oil company staff and university students, Sheldrake's work provides a careful balance between sufficient mathematical theory and comprehensive practical application knowledge. Features of the text include: Comprehensive handbook detailing the application of electrical engineering to the oil, gas and petrochemical industries Practical guidance to the electrical systems equipment used on off-shore production platforms, drilling rigs, pipelines, refineries and chemical plants Summaries of the necessary theories behind the design together with practical guidance on selecting the correct electrical equipment and systems required Presents numerous 'rule of thumb' examples enabling quick and accurate estimates to be made Provides worked examples to demonstrate the topic with practical parameters and data Each chapter contains initial revision and reference sections prior to concentrating on the practical aspects of power engineering including the use of computer modelling Offers numerous references to other texts, published papers and international standards for guidance and as sources of further reading material Presents over 35 years of experience in one self-

contained reference Comprehensive appendices include lists of abbreviations in common use, relevant international standards and conversion factors for units of measure An essential reference for electrical engineering designers, operations and maintenance engineers and technicians.