

Reeds Vol 15 Electronics Navigational Aids And Radio Theory For Electrotechnical Officers Reeds Marine Engineering And Technology Series

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Reeds Vol 1: Mathematics for Marine Engineers - Kevin Corner 2013-07-08

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 8 General Engineering Knowledge for Marine Engineers - Paul Anthony Russell 2018-09-06

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.

Aircraft Electrical and Electronic Systems - David Wyatt 2009-06-04

The Aircraft Engineering Principles and Practice Series provides students, apprentices and practicing aerospace professionals with the definitive resources to take forward their aircraft engineering maintenance studies and career. This book provides a detailed introduction to the principles of aircraft electrical and electronic systems. It delivers the essential principles and knowledge required by certifying mechanics, technicians and engineers engaged in engineering maintenance on commercial aircraft and in general aviation. It is well suited for anyone pursuing a career in aircraft maintenance engineering or a related aerospace engineering discipline, and in particular those studying for licensed aircraft

maintenance engineer status. The book systematically covers the avionic content of EASA Part-66 modules 11 and 13 syllabus, and is ideal for anyone studying as part of an EASA and FAR-147 approved course in aerospace engineering. All the necessary mathematical, electrical and electronic principles are explained clearly and in-depth, meeting the requirements of EASA Part-66 modules, City and Guilds Aerospace Engineering modules, BTEC National Units, elements of BTEC Higher National Units, and a Foundation Degree in aircraft maintenance engineering or a related discipline.

Reeds Vol 12 Motor Engineering Knowledge for Marine Engineers - Paul Anthony Russell 2018-09-06

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 - Christopher Lavers 2014-12-11

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 will provide 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 2: Applied Mechanics for Marine Engineers - Paul Anthony Russell
2021-12-09

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.

ETO Oral Questions and Answers - Steve Richards 2020-04-19

NEW 3rd edition. For those about to sit their formal oral session with the MCA for the Electro Technical Officer Certificate of Competence (CoC). A set of questions and answers that will allow you to practice and exercise your knowledge prior to your interview. Written by the former ETO senior lecturer from the Warsash Maritime Academy. Additional questions and answers. input from recent successful students. A must for all budding ETO's. Practice reading the questions, writing and speaking your answer then look up the preferred answer. Repeat many times until your interview.

All that is Solid Melts Into Air - Marshall Berman 1983

The experience of modernization -- the dizzying social changes that swept millions of people into the capitalist world -- and modernism in art, literature and architecture are brilliantly integrated in this account.

Reeds Vol 13: Ship Stability, Powering and Resistance - Jonathan Ridley 2014-04-21

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 check-list 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 16: Electrical Power Systems for Marine Engineers - Gordon Boyd
2020-10-01

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.

Marine Auxiliary Machinery - H. D. McGeorge 2013-10-22

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.

Reeds Vol 2: Applied Mechanics for Marine Engineers - Paul Anthony Russell
2021-12-09

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 9: Steam Engineering Knowledge for Marine Engineers - Thomas D. Morton
2019-06-25

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 21st Century Ship Management - John W Dickie 2014-04-17

Ship management has constantly had to evolve to take into account the advancements in technology as well as the demands of the shipping industry. Having internet access and email on board ship has meant that the ship manager has to possess certain sets of skills to function effectively in the post, including computer literacy. The emergence of large multi-national ship management companies has also changed how business is conducted and this in turn means that the ship manager and tiers of management within the organization have had to evolve to cope with the demands of working with a multi-national workforce. Furthermore, since the mid-1980s there has been an ever expanding raft of legislation that is more restrictive for companies to meet, and a shrinking of profit margins has seen a shift in how companies are required to operate to survive. This book addresses the demands of 21st century ship management with the focus of the book as much about the people who manage ships as about the theory and practice of ship management.

Reeds Vol 13: Ship Stability, Powering and Resistance - Jonathan Ridley 2021-08-05
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 11: Engineering Drawing - H.G. Beck 2019-05-21

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.

Reeds Vol 3: Applied Thermodynamics for Marine Engineers - Paul Anthony Russell 2022-02-17

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 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 15: Electronics, Navigational Aids and Radio Theory for Electrotechnical Officers - Steve Richards 2020-10-27

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

Reeds Vol 5: Ship Construction for Marine Engineers - Paul Anthony Russell 2022-08-04

Reeds Vol 5 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 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. The techniques and methods of ship's construction are continually changing especially as materials science develops at a rapid pace. Reeds Vol 5 needs to be updated to keep pace with these developments. In particular, there will be updated sections on composite technology which will open up the potential market in the UK as well as appealing to more of the international market. Extensively illustrated, the book will also include sample examination questions with worked example answers to aid students in their learning.

Reeds Skipper's Handbook - Malcolm Pearson 2020-04-16

The Reed's Skipper's Handbook has been a bestseller since first publication. The previous edition sold over 60,000 copies, and it is easy to see why: a handy pocket size, it is an aide-memoire of everything a boater needs to know at sea. Packed with a wide range of information in a concise form it is frequently recommended by Yachtmaster Instructors as a quick reference guide and as a revision aid for anyone taking their Day Skipper or Yachtmaster certificates. This 7th edition has been thoroughly revised, with updated text and illustrations throughout. 'A terrific little volume' Motorboat & Yachting 'A brilliant guide for beginners and an excellent refresher for more advanced skippers... a top rate book' Waterstones 'Everything you would need to know when going to sea in a yacht or small boat...a humdinger of a little book' Nautical Magazine Reeds Skipper's Handbook is a must for anyone going to sea in any size of boat - be they novice or

old hand. Tens of thousands of skippers and crew have found it invaluable as a memory jogger and refresher whether at sea or on land.

Reeds Introductions: Essential Sensing and Telecommunications for Marine Engineering Applications - Christopher Lavers 2017-03-09

Reeds Introductions: Essential Sensing and Telecommunications for Maritime Applications covers all fundamental and essential theoretical maritime physics principles which underpin modern marine sensors and telecommunications devices as needed by marine users such as: Navy, Coastguard, Merchant Shipping and users of pleasure craft. For safety at sea, it is vital that maritime users have at least a basic understanding of the key 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, but it is also a practical matter for the amateur as well. This vital introductory book is written as simply as possible to educate an increasing number of maritime users who wish to become familiar and competent with the latest technologies as well as a growing number of overseas students for whom English is not their first language. This volume provides a comprehensive study of maritime sensors and telecommunications principles and provides a firm foundation prior to reading and studying textbooks in the Reeds Marine Engineering series. Students having read this easy-to-read volume will be better prepared for the more in depth study of that series.

Reeds Introductions: Principles of Earth Observation for Marine Engineering Applications - Christopher Lavers 2019-09-19

An essential, introductory text for marine engineering students covering the fundamental earth-observation concepts that underpin all space-based terrestrial and maritime remote sensing methods. Satellite-based earth observation provides key weather and environmental information to all nations, including key maritime users such as navy, coastguard and merchant vessels. The application and understanding of electromagnetic wave-based devices and sensors is an established merchant sea service requirement, found in the Standards in Training and Certification in Watchkeeping (STCW95) qualification and various Maritime Coastguard Agency exams. It is vital that maritime and land-based users have a basic understanding of the concepts upon which these essential earth-observation systems now operate. The book is written as simply as possible to support the growing numbers of overseas students for whom English is not their first language. It provides a firm foundation prior to reading and studying of the Reeds Marine Engineering series, and is complementary to other volumes in the Introductions series. Maritime and land-based students and scientists having read this easy-to-read volume will be better prepared for more in-depth study.

Reeds Vol 10: Instrumentation and Control Systems - Gordon Boyd 2013-10-11

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.

Handbook for William - Dhuoda 1991

Reeds Vol 12 Motor Engineering Knowledge for Marine Engineers - Paul Anthony Russell 2012-12-13

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.

Blind Landings - Erik M. Conway 2006-11-04

By the end of World War II, the very concept of landing blind therefore had disappeared from the trade literature, a victim of human limitations.

Motor Engineering Knowledge for Marine Engineers - Paul Anthony Russell 2013-01-01

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

The Marine Engineering Series - The Society of Naval Architects and Marine Engineers 2020-05-31

Reeds Vol 5: Ship Construction for Marine Engineers - Paul Anthony Russell 2016-06-30

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 15: Electronics, Navigational Aids and Radio Theory for Electrotechnical Officers - Steve Richards 2013-09-16

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

Reeds Vol 6: Basic Electrotechnology for Marine Engineers - Christopher Lavers 2020-02-06

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 14: Stealth Warship Technology - Christopher Lavers 2012-12-23

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 13: Ship Stability, Powering and Resistance - Jonathan Ridley 2014-04-10
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 7: Advanced Electrotechnology for Marine Engineers - Christopher Lavers 2014-12-11

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 4: Naval Architecture - E.A. Stokoe 2003-08-29

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 8 General Engineering Knowledge for Marine Engineers - Paul Anthony Russell 2013-07-22

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 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.

Dust Off - Peter Dorland 1982-04-01

During a tour with The Historical Unit, U.S. Army Medical Dept., from 1974-1977, Peter Dorland, then a captain and a former Dust Off pilot in Vietnam, completed the basic research for this book and drafted a lengthy manuscript. In 1971, James Nanney, an editor at the U.S. Army Center of Military History conducted further research on Dust Off, reorganized and redrafted portions of the original manuscript, and added Chapter 4 and the Epilogue. Chapters include: the early years of medical evacuation, and the Korean War; birth of a tradition; the system matures; the pilot at work; from Tet 1968 to stand-down; statistics; doctrine and lessons learned; a historical perspective; and bibliography.

Reeds Vol 6: Basic Electrotechnology for Marine Engineers - Christopher Lavers 2013-04-22

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 4: Naval Architecture for Marine Engineers - Richard Pemberton

2018-10-18

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 3: Applied Thermodynamics for Marine Engineers - William Embleton

2016-07-14

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.