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# Reeds Marine Engineering

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## Introduction to Marine Engineering 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 and current pathways to a sea-going engineering career, 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 including National diplomas, Higher National Diploma and degree courses. An essential buy for any marine engineering student.

[Reeds Vol 12 Motor 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

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that this little volume will continue to be a useful pre-examination and revision text.

- Marine Engineers Review, January 1992

### **Reeds Vol 11: Engineering Drawing**

Thomas Reed

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 9: Steam Engineering Knowledge for Marine Engineers Bloomsbury Publishing

Reeds Vol 12 Motor Engineering Knowledge for Marine Engineers Bloomsbury Publishing

Reeds Vol 16: Electrical Power Systems for Marine Engineers Bloomsbury Publishing

Materials, fuel technology, boilers and ancillaries, fire and safety, pumps and pumping

systems.

Reeds Vol 8 General Engineering Knowledge for Marine Engineers Reeds

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.

Reed's Naval Architecture for Marine Engineers A&C Black

This book covers the syllabuses in Applied

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

Reeds Vol 3: Applied Thermodynamics for Marine Engineers 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 15: Electronics, Navigational Aids and Radio Theory for Electrotechnical Officers  
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.

The Marine Engineering Series Bloomsbury Publishing

This is based on the Naval Architecture syllabuses for the Certificate of Competency for

Class 2 and Class 1 Marine Engineer Officer, administered on behalf of the UK Department of Transport. Ideal preparation for the course and the exam.

Reeds Vol 5: Ship Construction 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."

Reeds Vol 14: Stealth Warship Technology  
Reeds Vol 12 Motor Engineering Knowledge for Marine Engineers

First book to give an insight into a growing area of interest - stealth warship technology - which is crucial for future developments in warship construction. It demonstrates the importance of materials used in warship construction and how this influences all of a naval platform's design parameters. Stealth technology is now considered a critical component within warship design, with interest in the concept of stealth increasing around the globe as naval forces adapt to new challenges. Many new developing nations are now implementing their first generation of

stealth technology military hardware. This exciting book explores the full extent of threats to warships and thus the transformational change in naval architecture to incorporate these modern stealth technologies. Discussing the history of stealth technology, with references to well-known aircraft, ships and events in military history, the book also provides readers with a unique opportunity to develop an understanding of the specialist skills required in this naval sector. This is an essential read for anyone interested in stealth design and the issues involved in this evolving technology.

Reeds Vol 2: Applied Mechanics for Marine Engineers Reeds

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 8 General Engineering Knowledge for Marine Engineers** Bloomsbury Publishing  
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 1: Mathematics for Marine Engineers

Elsevier

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.

Reeds Vol 4: Naval Architecture for Marine Engineers Bloomsbury Publishing

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 13: Ship Stability, Powering and Resistance Routledge  
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.

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

Reeds Marine Engineering and Technology General Engineering Knowledge for Marine Engineering Bloomsbury Publishing  
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 13: Ship Stability, Powering and Resistance A & C Black  
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

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procedures and methods of construction.

Extensively illustrated, the book also includes sample examination questions with worked examples answers to aid students in their learning.