Applied Mechanics For Marine Engineers

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The Engineer World Scientific Publishing Company
"The object of this book is to prepare students for the 'Mechanics and hydromechanics' part of the Certificates of Competency for marine engineering officers, issued by flag state administrations"--Preface.
Reed's Applied Mechanics for Engineers Elsevier Publishing Company
The main emphasis of this volume is on Continuum Mechanics. The 27 contributions written by established authorities in the field of marine vehicle dynamics cover topics relating to the environment, the mechanics associated with the interface, hydroelasticity, linear and non-linear dynamics problems with reference to chaos theory, experimental techniques and other methods of validation of software. The papers in this volume will provide a useful reference on the implications of new technologies in relation to the dynamics of ships and offshore structures.
Reeds Vol 3: Applied Heat A&C Black
Introduction to concepts of ship stability, resistance and powering relevant to marine professionals, including naval architects and merchant navy deck and engineering officers.
An Assessment of Naval Hydromechanics Science and Technology National Academies Press
Covering the syllabuses in Applied Heat for all classes of the Marine Engineers' Certificates of Competency of the Department of Transport (DTp), this book should be a useful aid to students on BTEC and SCOTVEC engineering courses. Basic principles are dealt with, commencing at a fairly elementary stage. Each chapter has fully worked examples woven into the text, test examples are set at the end of each chapter, and some typical exam questions are included.
Reeds Vol 8 General Engineering Knowledge for Marine Engineers Routledge
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.
Practical Mathematics for Marine Engineers, First Class A&C Black
"Mechanical Engineering Principles offers a student-friendly introduction to core engineering topics that does not assume any previous background in engineering studies, and as such can act as a core textbook for several engineering courses. Bird and Ross introduce mechanical principles and technology through examples and applications rather than theory. This approach enables students to develop a sound understanding of the engineering principles and their use in practice. Theoretical concepts are supported by over 600 problems and 400 worked answers. The new edition will match up to the latest BTEC National specifications and can also be used on mechanical engineering courses from Levels 2 to 4"--
Engineering Education in the British Dominions Springer Science & Business Media
This resource covers all areas of interest for the practicing engineer as well as for the student at various levels and educational institutions. It features the work of authors from all over the world who have contributed their expertise and support the globally working engineer in finding a solution for today‘s mechanical engineering problems. Each subject is discussed in detail and supported by numerous figures and tables.
Springer Handbook of Mechanical Engineering Thomas Reed Publications
This book is based on the author's experiences in engineering practice and in the classroom. The introductory topics in wave mechanics and the presentation of such have their foundations in the courses taught at the U.S. Naval Academy. The advanced topics have their origins in the postgraduate courses taught at the Johns Hopkins University.
Reeds Vol 2: Applied Mechanics Bloomsbury Publishing
An authoritative guide to the principles of applied mechanics within a marine setting.
Reed's Applied Mechanics for Engineers Thomas Reed Publications
Wave Mechanics and Wave Loads on Marine Structures provides a new perspective on the calculation of wave forces on ocean structures, unifying the deterministic and probabilistic approaches to wave theory and combining the methods used in field and experimental measurement. Presenting his quasi-determinism (QD) theory and approach of using small-scale field experiments (SSFEs), author Paolo Boccotti simplifies the findings and techniques honed in his ground-breaking work to provide engineers and researchers with practical new methods of analysis. Including numerous worked examples and case studies, Wave Mechanics and Wave Loads on Marine Structures also discusses and provides useful FORTRAN programs, including a subroutine for calculating particle velocity and acceleration in wave groups, and programs for calculating wave loads on several kinds of structures. Solves the conceptual separation of deterministic and stochastic approaches to wave theory seen in other resources through the application of quasi-determinism (QD) theory Combines the distinct experimental activities of field measurements and wave tank experiment using small-scale field experiments (SSFEs) Simplifies and applies the ground-breaking work and techniques of this leading expert in wave theory and marine construction
Reeds Vol 3: Applied Thermodynamics for Marine Engineers PIP Semarang
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.
Practical Mathematics for Marine Engineers, Second Class Butterworth-Heinemann
The annual International Seminar on Marine Technology (SENTA 2016) was held at Institut Teknologi Sepuluh Nopember (ITS), Surabaya, Indonesia, on 15-16 December 2016. This proceeding documents selected, peer-reviewed manuscripts that were presented at the seminar. The topics cover coastal and natural resources management, marine energy development and exploration, marine transportation and logistics, marine machinery and system, ship design, construction, production and recycling as well as offshore structures. Hopefully, the book will be of great value for researchers, academicians and engineers in the field of marine technology and can contribute to a sustainable marine technology development.
Practical Mathematics for Marine Engineers, First Class Reeds
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.
Applied Mechanics for Engineers Reed's Almanac
"This volume 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 programs. 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:--
Reeds Vol 2: Applied Mechanics for Marine Engineers John Wiley & Sons
The Department of the Navy maintains a vigorous science and technology (S&T) research program in those areas that are critically important to ensuring U.S. naval superiority in the maritime environment. A number of these areas depend largely on sustained Navy Department investments for their health, strength, and growth. One such area is naval hydromechanics, that is, the study of the hydrodynamic and hydroacoustic performance of Navy ships, submarines, underwater vehicles, and weapons. A fundamental understanding of naval hydromechanics provides direct benefits to naval warfighting capabilities through improvements in the speed, maneuverability, and stealth of naval platforms and weapons. An Assessment of Naval Hydromechanics Science and Technology is an assessment of S&T research in the area of naval hydromechanics. This report assesses the Navy's research effort in the area of hydromechanics, identifies non-Navy-sponsored research and development efforts that might facilitate progress in the area, and provides recommendations on how the scope of the Navy's research program should be focused to meet future objectives.
Dynamics of Marine Vehicles and Structures in Waves Bloomsbury Publishing
There have been stability theories developed for beams, plates

and shells — the most significant elements in mechanical, aerospace, ocean and marine engineering. For beams and plates, the theoretical and experimental values of buckling loads are in close vicinity. However for thin shells, the experimental predictions do not conform with the theory, due to presence of small geometric imperfections that are deviations from the ideal shape.This fact has been referred to in the literature as ‘embarrassing’, ‘paradoxical’ and ‘perplexing’. Indeed, the popular adage, “In theory there is no difference between theory and practice. In practice there is”, very much applies to thin shells whose experimental buckling loads may constitute a small fraction of the theoretical prediction based on classical linear theory; because in practice, engineers use knockdown factors that are not theoretically substantiated.This book presents a uniform approach that tames this prima-donna-like and capricious behavior of structures that has been dubbed the ‘imperfection sensitivity’ — thus resolving the conundrum that has occupied the best minds of elastic stability throughout the twentieth century.

Reeds Vol 2: Applied Mechanics for Marine Engineers World Scientific

Intended for coastal engineers and marine scientists who desire to develop a fundamental physical understanding of ocean waves and be able to apply this knowledge to ocean and coastal analysis and design. Provides an introduction to the physical processes of ocean wave mechanics, an understanding of the basic techniques for wave analysis, techniques for practical calculation and prediction of waves and applied wave forecasting.

Reeds Vol 13: Ship Stability, Powering and Resistance Bloomsbury Publishing

Covers the syllabuses in Applied Heat for all classes of the Marine Engineers' Certificates of Competency of the Department of Transport (DTp).

Ocean Engineering Mechanics Bloomsbury Publishing

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.

International Marine Engineering 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.