Muckle's Naval Architecture

Second Edition

W. Muckie Revised by D. A. Taylor



Butterworths

Muckles Naval Architecture

Lingsheng Yao

Muckles Naval Architecture:

Muckle's Naval Architecture W. Muckle, 1987 Muckle's Naval Architecture W. Muckle, D A Taylor, 2013-09-24 Muckle's Naval Architecture Second Edition is concerned with problems related to resistance propulsion and vibration in naval architecture Topics include ship calculations stability and trim ship motions and structural strength This book also gives a brief reference to ship design This text is comprised of 13 chapters the first of which provides an overview of the function of the ship its layout and various types The next chapter explains definitions principal dimensions and form coefficients along with classification societies and governmental authorities that regulate ship design construction and safety Various calculations that are performed to determine the form of a ship are the subject of the next chapter Attention then turns to buoyancy stability and trim along with sea and ship motions the problem of structural strength vibration and resistance The influence of rudders and control on ship movement is also discussed Finally this book describes the methods for determining the amount of power required to propel a ship This book is intended primarily for practicing naval architects marine engineers deck officers and all students of naval architecture Introduction to Naval Architecture E. C. Tupper, 2004-10-06 The fundamental characteristics of a ship's design and how they affect its behaviour at sea are of crucial importance to many people involved in the design construction operation and maintenance of all marine vessels Naval architects and those working in ship design need to understand these principles in depth Marine engineers must likewise recognise the degree to which their activities are influenced and bounded by these principles Finally senior crew both Ship s Engineers and Commanders need an understanding of the principles of naval architecture in order to properly fulfil their duties This book offers a clear and concise introduction to the subject and is of great value to both students and practising professionals in all of the above fields Covers introductory level courses in Naval Architecture and Marine Engineering Updated to cover key developments including double hulled tankers Fully revised fourth edition accompanied by exercises Naval Architecture for Marine Engineers W. Muckle, 2013-10-22 Naval and worked solutions for the first time Architecture for Marine Engineers focuses on resistance propulsion and vibration aspects of ships The book first discusses the functions layouts and types of ships and terms used The text looks at classification societies and governmental authorities influential on the design construction and safety of ships Lloyd's Register of Shipping governmental authorities and Intergovernmental Maritime Consultative Organization IMCO are noted The book also highlights ship calculations including trapezoidal rule Simpson's rule and other rules for calculation The text discusses as well the buoyancy stability and trim Conditions for equilibrium of body floating in still water calculation of underwater volume stability at large angle of inclination and flooding and damaged stability are considered The selection also underscores structural strength of ships Static forces on a ship in still water dynamic longitudinal strength problem resistance of ship to buckling and materials used in ships are noted The text also looks at resistance powering vibration and propulsion of ships The book is a vital source of

data for readers interested in naval architecture
Practical Ship Design D.G.M. Watson, 2002-02-22 The ever growing demand for commercial activities at sea has meant that ships are rapidly developing and that the rules governing their construction and operation are changing Practical Ship Design records these changes their outcomes and the reasoning behind them It deals with every aspect of ship design and handles a wide range of both merchant ships and naval ships with authority It provides coverage of cargo ships and passenger ships tugs dredgers and other service craft It also includes concept design detail design structural design hydrodynamics design the effect of regulations the preparation of specifications and matters of costs and economics Drawing on the author's extensive practical experience Practical Ship Design is likely to interest everybody involved in the design construction repair and operation of ships Students and the most experienced professionals will all benefit from the book's vast store of design data and its conclusions and recommendations

Introduction to Naval Architecture E. C. Tupper,1996 From the co author of Basic Ship Theory this is a fully re organised and rewritten successor to the well known Muckle's Naval Architecture Naval Architecture for Marine Engineers William Springer Handbook of Ocean Engineering Manhar R. Dhanak, Nikolaos I. Xiros, 2016-07-23 This handbook is Muckle,1975 the definitive reference for the interdisciplinary field that is ocean engineering It integrates the coverage of fundamental and applied material and encompasses a diverse spectrum of systems concepts and operations in the maritime environment as well as providing a comprehensive update on contemporary leading edge ocean technologies Coverage includes an overview on the fundamentals of ocean science ocean signals and instrumentation coastal structures developments in ocean energy technologies and ocean vehicles and automation It aims at practitioners in a range of offshore industries and naval establishments as well as academic researchers and graduate students in ocean coastal offshore and marine engineering and naval architecture The Springer Handbook of Ocean Engineering is organized in five parts Part A Fundamentals Part B Autonomous Ocean Vehicles Subsystems and Control Part C Coastal Design Part D Offshore Technologies Part E Energy Applied Mechanics Reviews ,1987 Marine Electrical Practice G. O. Watson, 2014-05-12 Marine Conversion Engineering Series Marine Electrical Practice Sixth Edition focuses on changes in the marine industry including the application of programmable electronic systems generators and motors The publication first ponders on insulation and temperature ratings of equipment protection and discrimination and AC generators Discussions focus on construction shaft drive generators effect of unbalanced loading subtransient and transient reactance protection discrimination fault current measurement of ambient air temperature and basis of machine ratings The text then examines AC switchgear automatic voltage regulators DC generators and DC switchgear Topics cover switchgear for parallel operated generators protection against short circuit field regulators and the effect of tropical temperatures compound wound generators power generators loading sharing voltage comparison circuit and amplifier and condition circuit The manuscript surveys electric cables motors motor control gear semiconductors storage batteries and battery control gear Concerns include calculations to determine the size of battery required types of storage batteries rectifiers tunnel diodes maintenance of control gear overload protection insulation sheathing and flexible cords and cables The publication is a dependable reference for marine engineers and researchers interested in marine engineering

Information Sources in Engineering Roderick A. Macleod, Jim Corlett, 2012-04-17 The current thoroughly revised and updated edition of this approved title evaluates information sources in the field of technology It provides the reader not only with information of primary and secondary sources but also analyses the details of information from all the important technical fields including environmental technology biotechnology aviation and defence nanotechnology industrial design material science security and health care in the workplace as well as aspects of the fields of chemistry electro technology and mechanical engineering The sources of information presented also contain publications available in printed and electronic form such as books journals electronic magazines technical reports dissertations scientific reports articles from conferences meetings and symposiums patents and patent information technical standards products electronic full text services abstract and indexing services bibliographies reviews internet sources reference works and publications of professional associations Information Sources in Engineering is aimed at librarians and information scientists in technical fields as well as non professional information specialists who have to provide information about technical issues Furthermore this title is of great value to students and people with technical professions

Proceedings of the Marine Safety Council United States. Marine Safety Council, 1988 **Proceedings of the Marine** Safety Council, 1988 The Log ,1952 Offshore Structure Modeling Subrata Kumar Chakrabarti, 1994-02-21 While the existing literature on offshore structures touch on model testing a comprehensive text discussing the design construction instrumentation testing and analysis of the physical model is lacking This book fills that vacuum and provides through its survey of the theoretical and practical aspects of physical modeling an in depth coverage of the technology of model testing Its usefulness runs through the entire field of engineering reaching far beyond its focus on offshore construction and its breadth of scope should appeal not only to engineers and naval architects but to scientists interested in structural or hydraulic testing as well Selection and Use of Engineering Materials J A Charles, F A A Crane, 2013-10-22 Selection and Use of Engineering Materials Second Edition covers the substantial development in the selection and application of materials and of associated materials This book is organized into four parts encompassing 20 chapters that also consider the advances in materials databases and computer programs The first part deals with the motivation cost basis service requirements failure analysis specifications and quality control of engineering materials The second part describes the mechanical properties of these materials including static strength toughness stiffness fatique creep and temperature resistance The third part examines the selection requirements for surface durability such as corrosion and wear resistance This part also explores the relationship between materials selection and materials processing as well as the formalization of selection procedures The fourth part provides some case studies in materials selection This book will prove useful to materials scientists and

practicing engineers Various and Ingenious Machines. Volume Two: Manufacturing and Weapons Technology Bryan Lawton, 2023-04-17 This two volume work describes the pre industrial history of mechanical engineering and covers power generation transport manufacturing and weapons technology Important items are discussed in each section and performance data are presented in easily understood graphical format using over 800 illustrations. The print edition is available as a set of two volumes 9789004136090 Bibliography of Nautical Books Alan Obin, 1999 of the Royal Institution of Naval Architects Royal Institution of Naval Architects, 1977 List of members in each volume **Poseidon's Progress** Iver P. Cooper, 2024-05-21 Nautical travel and shipboard living have evolved to be both safer and more comfortable for passengers and crewmembers While some of these improvements have come about through sheer trial and error others are the result of a careful analysis of problems followed by finding and implementing scientific solutions This book with a unique problem solution format examines the challenges of life at sea and how they have been ameliorated It covers topics such as ventilation healthy food and drink sleeping quarters sanitation facilities internal and external lighting seaworthiness and survival of maritime disasters man overboard shipwreck fire and contagious disease The text traces the history of the various attempts to address the difficulties of life on the water from a scientific engineering and legal perspective

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