

Read Book Basic Marine
Engineering By Jk Dhar

***Basic Marine
Engineering By Jk
Dhar***

The Maritime Engineering
Reference Book is a one-stop

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source for engineers involved in marine engineering and naval architecture. In this essential reference, Anthony F. Molland has brought together the work of a number of the world's leading writers in the field to create an

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inclusive volume for a wide audience of marine engineers, naval architects and those involved in marine operations, insurance and other related fields. Coverage ranges from the basics to more advanced topics

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in ship design, construction and operation. All the key areas are covered, including ship flotation and stability, ship structures, propulsion, seakeeping and maneuvering. The marine environment and maritime safety

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are explored as well as new technologies, such as computer aided ship design and remotely operated vehicles (ROVs). Facts, figures and data from world-leading experts makes this an invaluable ready-reference for

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those involved in the field of maritime engineering. Professor A.F. Molland, BSc, MSc, PhD, CEng, FRINA. is Emeritus Professor of Ship Design at the University of Southampton, UK. He has lectured ship design and

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operation for many years. He has carried out extensive research and published widely on ship design and various aspects of ship hydrodynamics. *

A comprehensive overview from best-selling authors including

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Bryan Barrass, Rawson and Tupper, and David Eyres *

Covers basic and advanced material on marine engineering and Naval Architecture topics *

Have key facts, figures and data to hand in one complete

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reference book

This book addresses applications of earthquake engineering for both offshore and land-based structures. It is self-contained as a reference work and covers a wide range of

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topics, including topics related to engineering seismology, geotechnical earthquake engineering, structural engineering, as well as special contents dedicated to design philosophy, determination of

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ground motions, shock waves, tsunamis, earthquake damage, seismic response of offshore and arctic structures, spatial varied ground motions, simplified and advanced seismic analysis methods, sudden subsidence of

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offshore platforms, tank liquid impacts during earthquakes, seismic resistance of non-structural elements, and various types of mitigation measures, etc. The target readership includes professionals in

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offshore and civil engineering, officials and regulators, as well as researchers and students in this field.

This three-volume work presents the proceedings from the 19th International Ship and Offshore

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Structures Congress held in Cascais, Portugal on 7th to 10th September 2015. The International Ship and Offshore Structures Congress (ISSC) is a forum for the exchange of information by experts

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undertaking and applying marine structural research. The aim of *Developments in the Analysis and Design of Marine Structures* is a collection of papers presented at MARSTRUCT 2021, the 8th International

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Conference on Marine Structures
(by remote transmission, 7-9
June 2021, organised by the
Department of Marine
Technology of the Norwegian
University of Science and
Technology, Trondheim,

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Norway), and is essential reading for academics, engineers and professionals involved in the design of marine and offshore structures. The MARSTRUCT Conference series deals with Ship and Offshore

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Structures, addressing topics in the fields of: - Methods and Tools for Loads and Load Effects; - Methods and Tools for Strength Assessment; - Experimental Analysis of Structures; - Materials and

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Fabrication of Structures; -
Methods and Tools for Structural Design and Optimisation; and -
Structural Reliability, Safety and Environmental Protection. The MARSTRUCT conferences series of started in Glasgow, UK

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in 2007, the second event of the series took place in Lisbon, Portugal in March 2009, the third in Hamburg, Germany in March 2011, the fourth in Espoo, Finland in March 2013, the fifth in Southampton, UK in March

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2015, the sixth in Lisbon, Portugal in May 2017, and the seventh in Drubovnik, Croatia in May 2019. The 'Proceedings in Marine Technology and Ocean Engineering' series is dedicated to the publication of proceedings

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of peer-reviewed international conferences dealing with various aspects of 'Marine Technology and Ocean Engineering'. The Series includes the proceedings of the following conferences: the International Maritime

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Association of the Mediterranean (IMAM) conferences, the Marine Structures (MARSTRUCT) conferences, the Renewable Energies Offshore (RENEW) conferences and the Maritime Technology (MARTECH)

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conferences. The 'Marine Technology and Ocean Engineering' series is also open to new conferences that cover topics on the sustainable exploration and exploitation of marine resources in various

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fields, such as maritime transport and ports, usage of the ocean including coastal areas, nautical activities, the exploration and exploitation of mineral resources, the protection of the marine environment and its resources,

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and risk analysis, safety and reliability. The aim of the series is to stimulate advanced education and training through the wide dissemination of the results of scientific research. Progress in the Analysis and

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Design of Marine Structures
Goods and Services of Marine
Bivalves
With Extreme Conditions and
Accidents
Ultimate Limit State Design of
Steel-Plated Structures

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Trends in the Analysis and Design of Marine Structures
Marine Structural Design
Maritime Engineering and Technology includes the papers from the 1st International Conference

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on Maritime Technology and Engineering (MARTECH 2011, Lisbon, Portugal, 10-12 May 2011). MARTECH 2011 was held to commemorate 100 years of the Instituto Superior Tico (IST) in

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Lisbon, and the contributions in the present volume reflect the This textbook covers the theoretical, fundamental aspects of naval architecture for students

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preparing for the Class 2 and Class 1 Marine Engineer Officer exams. It introduces the basic foundation themes within naval architecture, (hydrostatics, stability,

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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

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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

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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

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examination questions with worked examples answers to aid students in their learning.

Forest trees cover 30% of the earth's land surface, providing renewable fuel,

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wood, timber, shelter, fruits, leaves, bark, roots, and are source of medicinal products in addition to benefits such as carbon sequestration, water shed protection, and

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habitat for 1/3 of terrestrial species. However, the genetic analysis and breeding of trees has lagged behind that of crop plants. Therefore, systematic

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conservation, sustainable improvement and pragmatic utilization of trees are global priorities. This book provides comprehensive and up to date information about

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tree characterization, biological understanding, and improvement through biotechnological and molecular tools.

Steel plated structures are important in a variety

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of marine and land-based applications, including ships, offshore platforms, power and chemical plants, box girder bridges and box girder cranes. The basic strength members in steel

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plated structures include support members (such as stiffeners and plate girders), plates, stiffened panels/grillages and box girders. During their lifetime, the

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structures constructed using these members are subjected to various types of loading which is for the most part operational, but may in some cases be extreme or even

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accidental. Ultimate Limit State Design of Steel Plated Structures reviews and describes both fundamentals and practical design procedures in this field. The derivation of

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the basic mathematical expressions is presented together with a thorough discussion of the assumptions and the validity of the underlying expressions and solution

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methods. Particularly valuable coverage in the book includes: *

- Serviceability and the ultimate limit state design of steel structural systems and their

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components * The progressive collapse and the design of damage tolerant structures in the context of marine accidents * Age related structural degradation

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such as corrosion and fatigue cracks

Furthermore, this book is also an easily accessed design tool which facilitates learning by applying the concepts of

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the limit states for practice using a set of computer programs which can be downloaded. In addition, expert guidance on mechanical model test results as well as

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nonlinear finite element solutions, sophisticated design methodologies useful for practitioners in industries or research institutions, selected methods for accurate and

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efficient analyses of nonlinear behavior of steel plated structures both up to and after the ultimate strength is reached, is provided. Designed as both a

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textbook and a handy reference, the book is well suited to teachers and university students who are approaching the limit state design technology of steel plated

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structures for the first time. The book also meets the needs of structural designers or researchers who are involved in civil, marine and mechanical engineering as well as

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offshore engineering and
naval architecture.

Modern Earthquake
Engineering

International Marine
Engineering

Analysis and Design of

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Marine Structures
Offshore and Land-based
Structures
Tree Biotechnology
The Maritime Engineering
Reference Book
UNDERWATER INSPECTION AND

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**REPAIR FOR OFFSHORE
STRUCTURES** Benefit from a
much-needed, up-to-date
handbook on underwater
inspection and repair
processes and technologies
**Underwater Inspection and
Repair for Offshore**

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Structures fills a gap in the literature to provide an overview of the inspection and repair processes for both steel and concrete offshore structures. Authors and noted experts on the topic John V. Sharp and

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Gerhard Esdal guide readers through the reasons why inspection and repair are performed and how both are linked to the management of structural integrity, statutory requirements, and various types of damage. The

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book addresses critical topics, including the execution and planning of inspection and repair, the tools and methods used, and their deployment underwater. The authors put particular focus on steel and concrete

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offshore oil and gas installations, but the content is also applicable to the substructures of offshore wind turbines. Underwater Inspection and Repair for Offshore Structures is complementary

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to the authors' book Ageing and Life Extension of Offshore Structures, also from Wiley. This important book: Covers current inspection and monitoring techniques to evaluate existing structures Includes

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coverage of robotic (ROV) inspection and repair methods Provides an overview of repair and maintenance techniques applicable to the splash?zone and underwater operations Written for engineers, designers, and

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safety auditors working with offshore structures.

Underwater Inspection and Repair for Offshore Structures is a comprehensive resource for understanding how to effectively inspect and

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repair these vulnerable structures.

Marine Auxiliary Machinery, Seventh Edition is a 16-chapter text that covers the significant advances in marine auxiliary machinery relevant to the

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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

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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

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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

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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.

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This important, self-contained reference deals with structural life assessment (SLA) and structural health monitoring (SHM) in a combined form. SLA periodically evaluates the state and condition of a

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structural system and provides recommendations for possible maintenance actions or the end of structural service life. It is a diversified field and relies on the theories of fracture mechanics, fatigue damage

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process, and reliability theory. For common structures, their life assessment is not only governed by the theory of fracture mechanics and fatigue damage process, but by other factors such as

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corrosion, grounding, and sudden collision. On the other hand, SHM deals with the detection, prediction, and location of crack development online. Both SLA and SHM are combined in a unified and coherent

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treatment, bringing together the major mechanical processes at work that determine the lifetime of a structure, including normal loading, extreme loading, and the effects of corrosion with relevant analysis

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techniques covering joints and weldments, which are features where structural failure is likely to originate reviewing diversified problems including probabilistic description of structural

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failure, extreme loading, environmental effects such as corrosion and hydrogen embrittlement, joints and weldments, and control of crack propagation (crack arresters) and corrosion providing a unified approach

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to SLA and SHM. Handbook of Structural Life Assessment will be an essential guide for aerospace structures designers and maintenance engineers, pipeline engineers, ship designers and builders, researchers in

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civil, mechanical, naval, and aerospace engineering, and graduate students in civil, mechanical, naval, and aerospace engineering. Maritime Technology and Engineering includes the papers presented at the 2nd

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International Conference on Maritime Technology and Engineering (MARTECH 2014, Lisbon, Portugal, 15-17 October 2014). The contributions reflect the internationalization of the maritime sector, and cover a

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wide range of topics: Ports;
Maritime transportation;
Inland navigat
Developments in the Analysis
and Design of Marine
Structures
Proceedings of the 6th
International Conference on

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**Marine Structures (MARSTRUCT
2017), May 8-10, 2017,
Lisbon, Portugal
Ship-Shaped Offshore
Installations
including CD-ROM
Ships and Offshore
Structures XIX**

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Transactions - The Society of Naval Architects and Marine Engineers

List of members in vols.
1-24, 38-54, 57.

Progress in the Analysis and Design of Marine

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Structures collects the contributions presented at MARSTRUCT 2017, the 6th International Conference on Marine Structures (Lisbon, Portugal, 8-10 May 2017). The MARSTRUCT

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series of Conferences started in Glasgow, UK in 2007, the second event of the series having taken place in Lisbon, Portugal in March 2009, the third in Hamburg, Germany in

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March 2011, the fourth in Espoo, Finland in March 2013, and the fifth in Southampton, UK in March 2015. This Conference series deals with Ship and Offshore Structures,

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addressing topics in the areas of: - Methods and Tools for Loads and Load Effects - Methods and Tools for Strength Assessment - Experimental Analysis of Structures -

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Materials and Fabrication of Structures - Methods and Tools for Structural Design and Optimisation, and - Structural Reliability, Safety and Environmental Protection

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Progress in the Analysis and Design of Marine Structures is essential reading for academics, engineers and all professionals involved in the design of marine and

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offshore structures.
Progress in Maritime Technology and Engineering collects the papers presented at the 4th International Conference on Maritime Technology and

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Engineering (MARTECH 2018, Lisbon, Portugal, 7-9 May 2018). This conference has evolved from a series of biannual national conferences in Portugal, and has developed into an

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international event, reflecting the internationalization of the maritime sector and its activities. MARTECH 2018 is the fourth in this new series of biannual

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conferences. Progress in Maritime Technology and Engineering contains about 80 contributions from authors from all parts of the world, which were reviewed by an

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International Scientific Committee. The book is divided into the subject areas below: - Port performance - Maritime transportation and economics - Big data in

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shipping - Intelligent
ship navigation - Ship
performance -
Computational fluid
dynamics - Resistance and
propulsion - Ship
propulsion - Dynamics and

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control - Marine pollution and sustainability - Ship design - Ship structures - Structures in composite materials - Shipyard technology - Coating and corrosion - Maintenance -

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Risk analysis - Offshore and subsea technology - Ship motion - Ships in transit - Wave-structure interaction - Wave and wind energy - Waves
Progress in Maritime

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Technology and Engineering will be of interest to academics and professionals involved in the above mentioned areas. This volume contains the papers presented at the

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Fourth International Conference of Thin-Walled Structures (ICTWS4), and contains 110 papers which, collectively, provide a comprehensive state-of-the-art review of the progress

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made in research, development and manufacture in recent years in thin-walled structures. The presentations at the conference had

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representation from 35 different countries and their topical areas of interest included aeroelastic response, structural-acoustic coupling, aerospace

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structures, analysis, design, manufacture, cold-formed structures, cyclic loading, dynamic loading, crushing, energy absorption, fatigue, fracture, damage

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tolerance, plates, stiffened panels, plated structures, polymer matrix composite members, sandwich structures, shell structures, thin-walled beams, columns and

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vibrational response. The range of applications of thin-walled structures has become increasingly diverse with a considerable deployment of thin-walled structural

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elements and systems being found in a wide range of areas within Aeronautical, Automotive, Civil, Mechanical, Chemical and Offshore Engineering fields. This volume is an

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extremely useful reference volume for researchers and designers working within a wide range of engineering disciplines towards the design, development and manufacture of efficient

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thin-walled structural systems.

Marine Engineering & Shipping Age
Progress in Maritime Technology and Engineering
Proceedings of the 7th

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International Conference
on Marine Structures
(MARSTRUCT 2019,
Dubrovnik, Croatia, 6-8
May 2019)
Basic Civil Engineering
Reeds Vol 5: Ship

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Construction for Marine
Engineers

Ultimate Limit State
Analysis and Design of
Plated Structures

Since the publication of the bestselling
first edition, there have been numerous

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advances in the field of nuclear science. In medicine, accelerator based teletherapy and electron-beam therapy have become standard. New demands in national security have stimulated major advances in nuclear instrumentation. An ideal introduction to the fundamentals of nuclear science and engineering, this book

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presents the basic nuclear science needed to understand and quantify an extensive range of nuclear phenomena. New to the Second Edition □ A chapter on radiation detection by Douglas McGregor Up-to-date coverage of radiation hazards, reactor designs, and medical applications Flexible organization of material that allows for

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quick reference This edition also takes an in-depth look at particle accelerators, nuclear fusion reactions and devices, and nuclear technology in medical diagnostics and treatment. In addition, the author discusses applications such as the direct conversion of nuclear energy into electricity. The breadth of coverage is

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unparalleled, ranging from the theory and design characteristics of nuclear reactors to the identification of biological risks associated with ionizing radiation. All topics are supplemented with extensive nuclear data compilations to perform a wealth of calculations. Providing extensive coverage of physics, nuclear science, and

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nuclear technology of all types, this up-to-date second edition of Fundamentals of Nuclear Science and Engineering is a key reference for any physicists or engineer. Any structural system in service is subject to age-related deterioration, leading to potential concerns regarding maintenance, health & safety, environmental and

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economic implications. Condition assessment of aged structures is an invaluable, single source of information on structural assessment techniques for marine and land-based structures such as ships, offshore installations, industrial plant and buildings. Topics covered include: - Current practices and standards

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for structural condition assessment -
Fundamental mechanisms and advanced
mathematical methods for predicting
structural deterioration - Residual strength
assessment of deteriorated structures -
Inspection and maintenance of aged
structures - Reliability and risk assessment
of aged structures Professionals from a

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broad range of disciplines will be able to gain a better understanding of current practices and standards for structural condition assessment or health monitoring, and what future trends might be. Single source of information on structural assessment techniques for marine and land-based structures Examines the residual

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strength and reliability of aged structures
Assesses current practices covering
inspection, health monitoring and
maintenance

This book describes principles, industry practices and evolutionary methodologies for advanced safety studies, which are helpful in effectively managing volatile,

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uncertain, complex, and ambiguous (VUCA) environments within the framework of quantitative risk assessment and management and associated with the safety and resilience of structures and infrastructures with tolerance against various types of extreme conditions and accidents such as fires, explosions,

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collisions and grounding. It presents advanced computational models for characterizing structural actions and their effects in extreme and accidental conditions, which are highly nonlinear and non-Gaussian in association with multiple physical processes, multiple scales, and multiple criteria. Probabilistic scenario

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selection practices and applications are presented. Engineering practices for structural crashworthiness analysis in extreme conditions and accidents are described. Multidisciplinary approaches involving advanced computational models and large-scale physical model testing are emphasized. The book will be useful to

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students at a post-graduate level as well as researchers and practicing engineers.

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

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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

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examination questions with worked examples answers to aid students in their learning.

Design Principles of Ships and Marine Structures

Developments in Maritime Transportation and Exploitation of Sea Resources

Design, Construction, Operation,

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Healthcare and Decommissioning
IMAM 2013

Marine Engineering

Southern Marine Engineering Desk
Reference

**Trends in the Analysis and
Design of Marine Structures
is a collection of the**

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papers presented at MARSTRUCT 2019, the 7th International Conference on Marine Structures held in Dubrovnik, Croatia, 6-8 May 2019. The MARSTRUCT series of Conferences started in Glasgow, UK in 2007, the

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second event of the series having taken place in Lisbon, Portugal in March 2009, the third in Hamburg, Germany in March 2011, the fourth in Espoo, Finland in March 2013, the fifth in Southampton, UK in March

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2015, and the sixth in Lisbon, Portugal in May 2017. This Conference series specialises in dealing with Ships and Offshore Structures, addressing topics in the fields of: -
Methods and Tools for Loads

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and Load Effects - Methods
and Tools for Strength
Assessment - Experimental
Analysis of Structures -
Materials and Fabrication of
Structures - Methods and
Tools for Structural Design
and Optimisation -

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Structural Reliability, Safety and Environmental Protection. Trends in the Analysis and Design of Marine Structures is an essential document for academics, engineers and all professionals involved in

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the area of analysis and design of Ships and Offshore Structures. About the series: The 'Proceedings in Marine Technology and Ocean Engineering' series is devoted to the publication of proceedings of peer-

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reviewed international conferences dealing with various aspects of 'Marine Technology and Ocean Engineering'. The Series includes the proceedings of the following conferences: the International Maritime

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Association of the
Mediterranean (IMAM)
conferences, the Marine
Structures (MARSTRUCT)
conferences, the Renewable
Energies Offshore (RENEW)
conferences and the Maritime
Technology (MARTECH)

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conferences. The 'Marine Technology and Ocean Engineering' series is also open to new conferences that cover topics on the sustainable exploration and exploitation of marine resources in various fields,

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such as maritime transport and ports, usage of the ocean including coastal areas, nautical activities, the exploration and exploitation of mineral resources, the protection of the marine environment and

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its resources, and risk analysis, safety and reliability. The aim of the series is to stimulate advanced education and training through the wide dissemination of the results of scientific research.

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Basic Marine
Engineering Marine Auxiliary
Machinery Elsevier

This exciting new edition
covers the core subject
areas of arithmetic,
algebra, mensuration in 2D
and 3D, trigonometry and

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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

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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

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from other disciplines, such as electrical engineering, will also be covered, and reference made to the use of advanced calculators where relevant.

Marine Structural Design, Second Edition, is a wide-

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ranging, practical guide to marine structural analysis and design, describing in detail the application of modern structural engineering principles to marine and offshore structures. Organized in

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five parts, the book covers basic structural design principles, strength, fatigue and fracture, and reliability and risk assessment, providing all the knowledge needed for limit-state design and re-

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assessment of existing structures. Updates to this edition include new chapters on structural health monitoring and risk-based decision-making, arctic marine structural development, and the

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addition of new LNG ship topics, including composite materials and structures, uncertainty analysis, and green ship concepts. Provides the structural design principles, background theory, and know-

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how needed for marine and offshore structural design by analysis Covers strength, fatigue and fracture, reliability, and risk assessment together in one resource, emphasizing practical considerations and

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applications Updates to this edition include new chapters on structural health monitoring and risk-based decision making, and new content on arctic marine structural design
Advanced Structural Safety

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Studies

**Maritime Engineering and
Technology**

**Reeds Vol 1: Mathematics for
Marine Engineers**

**A Guide to Ship Design,
Construction and Operation**

Maritime Technology and

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Engineering

**Proceedings of the 3rd
International Conference on
Maritime Technology and
Engineering (MARTECH 2016,
Lisbon, Portugal, 4-6 July
2016)**

Extensively updated for
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the second edition, this handy guide covers the safety engineering of ship-shaped offshore installations at every stage of design, construction, operation,

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lifetime healthcare and decommissioning. New sections cover additional types of offshore structures, including offshore power plants, as well as

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cutting-edge technologies and all the latest advances in the field. The text focuses on minimising accidents and the effects of extreme conditions, with

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new chapters covering earthquakes, hurricanes and terrorist attacks, as well as traditional types of accidental events such as hull girder collapse,

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collisions, fires and explosions. This is an invaluable resource for students who will be approaching the subject for the first time as well as practising

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engineers and researchers.

Engineering dynamics and vibrations has become an essential topic for ensuring structural integrity and

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operational functionality in different engineering areas. However, practical problems regarding dynamics and vibrations are in many

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cases handled without success despite large expenditures. This book covers a wide range of topics from the basics to advances in dynamics and vibrations; from

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relevant engineering challenges to the solutions; from engineering failures due to inappropriate accounting of dynamics to mitigation measures

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and utilization of dynamics. It lays emphasis on engineering applications utilizing state-of-the-art information.

'Analysis and Design of

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Marine Structures' explores recent developments in methods and modelling procedures for structural assessment of marine structures: - Methods

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and tools for establishing loads and load effects; - Methods and tools for strength assessment; - Materials and fabrication of structures; - Methods

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and tools for structural design and optimisation;
- Structural reliability, safety and environment protection.
The book is a valuable reference source for

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academics, engineers and professionals involved in marine structures and design of ship and offshore structures.

Basic Civil Engineering is designed to enrich

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every facet of ship design and design integration, and highlights the design aspects that must be put together to create an integrated whole product. This book

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***discusses naval
architecture and marine
engineering applications
and principles relevant to
the design of various
systems, examines
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***techniques that can be
applied to maritime
design procedure at the
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Sphere of Marine Design
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design and the marine
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products that are used for transportation, defense and the exploitation of marine resources. It also discusses stability issues relevant to ship design,

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as well as hydrodynamic aspects of resistance, propulsion, sea keeping and maneuvering, and their effects on design. In addition to covering the various systems and sub-

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***systems that go into
making a complex
product to be used in
maritime environment,
the author explains
engineering economics
and its application in ship***

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***design, and provides
examples wherever
necessary. Written by an
author with more than 35
years of teaching
experience, this book:
Describes various design***

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***methodologies such as
sequential design process
with the application of
concurrent engineering
and set based design
factors in the use of
computer-aided design***

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***techniques Highlights the
shape design
methodology of ship
forms and layout design
principles Considers
design aspects relative to
safety and risk***

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aspects in marine product
development Discusses
design principles for
sustainability Explains
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***numerical optimization
for decision-making
Design Principles of Ships
and Marine Structures
focuses on ship design
efficiency, safety,
sustainability,***

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***production, and
management, and
appeals to students and
design professionals in
the field of shipping,
shipbuilding and offshore
engineering.***

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***Maritime Technology and
Engineering 3 is a
collection of papers
presented at the 3rd
International Conference
on Maritime Technology
and Engineering***

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Portugal, 4-6 July 2016).
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of the maritime sector.
The keynote lectures and
the papers, making up
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***authors focused on
different subjects in a
variety of fields: Maritime
Transportation, Energy
Efficiency, Ships in Ports,
Ship Hydrodynamics, Ship
Structures, Ship Design,***

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Environment, Renewable
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Structures. This book will***

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***appeal to academics,
engineers and
professionals interested
or involved in these
fields.***

***Developments in
Maritime Transportation***

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***and Exploitation of Sea
Resources covers recent
developments in
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and exploitation of sea
resources, encompassing
ocean and coastal areas.***

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reflecting fundamental
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that are the basis for the goods and services, what controversies in the use of goods and services exist, and what is needed for sustainable exploitation of bivalves

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***from the perspective of
the various stakeholders.
The book is focused on
the goods and services,
and not on impacts of
shellfish aquaculture on
the benthic environment,***

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***or on threats like
biotoxins; neither is it a
shellfish culture
handbook although it can
be used in evaluating
shellfish culture. The
reviews and analysis are***

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***based on case studies
that exemplify the
concept, and show the
strengths and
weaknesses of the
current applications. The
multi-authored reviews***

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***cover ecological,
economic and social
aspects of bivalve goods
and services. The book
provides new insights for
scientists, students,
shellfish producers,***

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***policy advisors, nature
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Maritime Technology and
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Manufacturing
Technology
Marine Auxiliary
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Reviews and describes both***

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the fundamental and practical design procedures for the ultimate limit state design of ductile steel plated structures
The new edition of this well-established reference reviews and describes both

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fundamentals and practical design procedures for steel plated structures. The derivation of the basic mathematical expressions is presented together with a thorough discussion of the

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the limit states for practice using a set of computer programs, which can be downloaded. Ultimate Limit State Design of Steel Plated Structures provides expert guidance on mechanical

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and efficient analyses of nonlinear behavior of steel plated structures both up to and after the ultimate strength is reached. Covers recent advances and developments in the field Includes new

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university students who are approaching the limit state design technology of steel plated structures for the first time. It also meets the needs of structural designers or researchers who are involved

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mechanical engineering as
well as offshore engineering
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***Engineering Dynamics and
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Portugal
Condition Assessment of
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