

Ocean Engineering & Oceanography 9

Srinivasan Chandrasekaran

Dynamic Analysis and Design of Offshore Structures

Second Edition

 Springer

Dynamic Analysis And Design Of Offshore Structures Ocean Engineering Oceanography

University of Michigan

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Dynamic Analysis and Design of Offshore Structures Srinivasan Chandrasekaran, 2017-10-12 This book introduces readers to various types of offshore platform geometries. It addresses the various environmental loads encountered by these structures and provides detailed descriptions of the fundamentals of structural dynamics in a classroom style, helping readers estimate damping in offshore structures and grasp these aspects. Applications in preliminary analysis and design. Basic concepts of structural dynamics are emphasized through simple illustrative examples and exercises. Design methodologies and guidelines which are FORM based concepts are explained through a selection of applied sample structures. Each chapter also features tutorials and exercises for self learning. A dedicated chapter on stochastic dynamics helps students to extend the basic concepts of structural dynamics to this advanced domain of research. Hydrodynamic response of offshore structures with perforated members is one of the most recent research applications and has proven to be one of the most effective means of retrofitting offshore structures. In addition, the book integrates the concepts of structural dynamics with the FORM evolved design of offshore structures, offering a unique approach. This new edition is divided into seven chapters, each of which has been updated. Each chapter also includes a section on frequently asked Questions and Answers (Q & A) which enhances understanding of this complex subject through easy and self-explanatory text. Furthermore, the book presents valuable content with respect to new and recent research carried out by the author in structural dynamics. All numeric examples have been re-checked with more additional explanations. New exercises have been added to improve understanding of the subject matter. Computer coding is also included wherever possible to aid computer-based learning of the contents of the book. The book can serve as a textbook for senior undergraduate and graduate courses in civil structural applied mechanics, mechanical, aerospace, naval architecture, and ocean engineering programs. The book can also serve as a text for professional learning and development programs or as a guide for practicing and consulting offshore structural engineers. The contents of this book will be useful to graduate students, researchers, and professionals alike.

LaQue's Handbook of Marine Corrosion David A. Shifler, 2022-07-01 The new edition of LaQue's classic text on marine corrosion, providing fully updated control engineering practices and applications. Extensively updated throughout the second edition of LaQue's Handbook of Marine Corrosion remains the standard single source reference on the unique nature of seawater as a corrosive environment. Designed to help readers reduce operational and life cycle costs for materials in marine environments, this authoritative resource provides clear guidance on design, materials selection, and implementation of corrosion control engineering practices for materials in atmospheric immersion or wetted marine environments. Completely rewritten for the 21st century, this new edition reflects current environmental regulations, best practices, materials, and processes, with special emphasis placed on the engineering behavior and practical applications of materials. Divided into three parts, the book first explains the fundamentals of corrosion in marine environments, including atmospheric corrosion, erosion, microbiological

corrosion fatigue environmental cracking and cathodic delamination The second part discusses corrosion control methods and materials selection that can mitigate or eliminate corrosion in different marine environments The third section provides the reader with specific applications of corrosion engineering to structures systems or components that exist in marine environments This much needed new edition Presents a comprehensive and up to date account of the science and engineering aspects of marine corrosion Focuses on engineering aspects descriptive behavior and practical applications of materials usage in marine environments Addresses the various materials used in marine environments including metals polymers alloys coatings and composites Incorporates current regulations standards and recommended practices of numerous organizations such as ASTM International the US Navy the American Bureau of Shipping the International Organization for Standardization and the International Maritime Organization Written in a clear and understandable style La Que s Handbook of Marine Corrosion Second Edition is an indispensable resource for engineers and materials scientists in disciplines spanning the naval maritime commercial shipping industries particularly corrosion engineers ship designers naval architects marine engineers oceanographers and other professionals involved with products that operate in marine environments Innovations in the Analysis and Design of Marine Structures Yordan Garbatov,C. Guedes

Soares,2025-05-09 Innovations in the Analysis and Design of Marine Structures is a collection of papers presented at MARSTRUCT 2025 the 10th International Conference on Marine Structures MARSTRUCT 2025 Lisbon Portugal 20 22 May 2025 The contributions cover a wide range of topics including Loads and load effects Strength assessment Experimental analysis of structures Materials and fabrication of structures Structural design and optimization Structural reliability and safety Innovations in the Analysis and Design of Marine Structures is essential reading for academics engineers and professionals involved in the design of marine and offshore structures The Proceedings in Marine Technology and Ocean Engineering series is devoted to the publication of proceedings 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 Marine Structures MARSTRUCT Conferences the Maritime Technology MARTECH Conferences the Renewable Energies Offshore RENEW Conferences the Collision and Grounding of Ships and Offshore Structures ICCGS Conferences and the International Maritime Association of the Mediterranean IMAM 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 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 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 University of Michigan Official Publication University of Michigan,1984 Each number is the catalogue of a specific school or college of the University *Essentials of Applied*

Dynamic Analysis Junbo Jia, 2014-01-09 This book presents up to date knowledge of dynamic analysis in engineering world To facilitate the understanding of the topics by readers with various backgrounds general principles are linked to their applications from different angles Special interesting topics such as statistics of motions and loading damping modeling and measurement nonlinear dynamics fatigue assessment vibration and buckling under axial loading structural health monitoring human body vibrations and vehicle structure interactions etc are also presented The target readers include industry professionals in civil marine and mechanical engineering as well as researchers and students in this area *Applied Mechanics Reviews*, 1978 *Oceanic Abstracts*, 1994 **Peterson's Guide to Graduate Programs in Engineering and Applied Sciences**, 1978 **Oceanic Abstracts with Indexes**, 1982 **Journal of Energy Resources Technology**, 1984 Addressing the areas of petroleum drilling production refining processing transportation and equipment and vehicles for sea underwater usage the Journal presents peer reviewed technical papers as well as briefs Continued in part by Journal of offshore mechanics and arctic engineering *Peterson's Annual Guides/graduate Study* Peterson's Guides, Inc, 1982 **Civil Engineering Hydraulics Abstracts**, 1984 **Petroleum Abstracts**, 1993 *The University of Michigan Bulletin* University of Michigan, 2003 Each number is the catalogue of a specific school or college of the University *Catalogs of Courses* University of California, Berkeley, 1988 Includes general and summer catalogs issued between 1878 1879 and 1995 1997 *Civil Engineering in the Oceans*, 1979 **Civil Engineering in the Oceans IV**, 1979 **Undersea Technology Handbook, Directory**, 1974 *Oceanic Engineering International*, 1999 **Annual Report** University of Florida. Graduate School, 1975

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