Ocean Engineering & Oceanography 5

Srinivasan Chandrasekaran

# Dynamic Analysis and Design of Offshore Structures



# **Dynamic Analysis And Design Of Offshore Structures Ocean Engineering Oceanography**

**JL Elias** 

# Dynamic Analysis And Design Of Offshore Structures Ocean Engineering Oceanography:

**Dynamic Analysis and Design of Offshore Structures** Srinivasan Chandrasekaran, 2015-02-13 This book attempts to provide readers with an overall idea of various types of offshore platform geometries It covers the various environmental loads encountered by these structures a detailed description of the fundamentals of structural dynamics in a class room style estimate of damping in offshore structures and their applications in the 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 few applied example structures Each chapter also has tutorials and exercises for self learning A dedicated chapter on stochastic dynamics will help the 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 recent research applications which is found to be one of the effective manner of retrofitting offshore structures Results of recent research validated by the experimental and numerical studies are presented to update of the readers Integration of the concepts of structural dynamics with the FORM evolved design of offshore structures is a unique approach used in this book The book will prove useful to the practicing and consulting offshore structural engineers as also Dynamic Analysis and Design of Offshore Structures Srinivasan to students and researchers working in the field 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 quidelines 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 La Que 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 fatique 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 OCEANOGRAPHY- Volume III Chen-Tung Arthur Chen, Jacques C. J. Nihoul, 2009-04-16 Oceanography is a component of Encyclopedia of Earth and Atmospheric Sciences in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias These volumes deal with the oceans as an integrated dynamic system characterized by a delicate complex system of interactions among the biota the ocean boundaries with the solid earth and the atmosphere This set of volumes is designed to be a very authoritative reference for state of the art knowledge on the various aspects such as Physical

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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 Dynamics of Offshore Structures Minoo H Patel, 2013-10-22 Dynamics of Offshore Structures provides an integrated treatment of the main subject areas that contribute to the design construction installation and operation of fixed and floating offshore structures. The book begins with an overview of offshore oil and gas development and offshore structures Separate chapters follow on the ocean environment basic fluid mechanics gravity wave theories fluid loading on offshore structures hydrostatics and dynamic response of floating bodies and model testing of offshore structures This book is prepared with particular emphasis on the fundamentals of oceanography basic fluid mechanics wave theory hydrodynamics naval architecture and structural analysis to meet the needs of students reading ocean engineering or naval architecture at both undergraduate and postgraduate levels Basic equations and theoretical results are derived in a rigorous manner but sections on model testing full scale measurements design and certification are also induced to ensure that the book is of value to professional engineers seeking a balanced Offshore Semi-Submersible Platform Engineering Srinivasan treatment of fundamental and practical issues Chandrasekaran, 2020-12-23 Offshore Semi Submersible Platform Engineering presents a primer on the analysis and design of semi submersible platforms in particular while also covering general analysis and design guidelines of offshore compliant platforms It introduces general structural designs and also examines the details of the various environmental impacts that act upon them such as fatigue fire collisions and water waves Features Provides thorough coverage of the dynamic analysis and design of semi submersible platforms Assists readers through detailed analysis methods using MATLAB as well as other computer programs used to carry out structural analysis Explains impact loading and dynamic response through numerical analysis and examines the various factors that affect semi submersibles Presented in a coursework teaching style the content is explained in a step by step manner using color figures photos screen shots and illustrations thereby enabling students

researchers and practicing engineers to carry out analysis with ease Offshore Semi Submersible Platform Engineering serves as a practical guide for upper level students and graduates of various engineering disciplines for example naval architecture and structural mechanical pipeline and offshore engineering Further it can also be used as a reference for practicing professionals as the book covers a broad range of scholarships and applications **Multibody Dynamics 2019** Andrés Kecskeméthy,Francisco Geu Flores,2019-06-28 In this work outstanding recent developments in various disciplines such as structural dynamics multiphysic mechanics computational mathematics control theory biomechanics and computer science are merged together in order to provide academicians and professionals with methods and tools for the virtual prototyping of complex mechanical systems Each chapter of the work represents an important contribution to multibody dynamics a discipline that plays a central role in the modelling analysis simulation and optimization of mechanical systems in a variety of fields and for a wide range of applications *College of Engineering University* of Michigan. College of Engineering,1981

University Curricula in the Marine Sciences and Related Fields United States. Navy Department. Office of the An Integrated Nonlinear Wind-Waves Model for Offshore Wind Turbines Enzo Oceanographer of the Navy, 1971 Marino, 2010 This thesis presents a numerical model capable of simulating offshore wind turbines exposed to extreme loading conditions External condition based extreme responses are reproduced by coupling a fully nonlinear wave kinematic solver with a hydro aero elastic simulator First a two dimensional fully nonlinear wave simulator is developed The transient nonlinear free surface problem is formulated assuming the potential theory and a high order boundary element method is implemented to discretize Laplace s equation For temporal evolution a second order Taylor series expansion is used The code after validation with experimental data is successfully adopted to simulate overturning plunging breakers which give rise to dangerous impact loads when they break against wind turbine substructures Emphasis is then placed on the random nature of the waves Indeed through a domain decomposition technique a global simulation framework embedding the numerical wave simulator into a more general stochastic environment is developed. The proposed model is meant as a contribution to meet the more and more pressing demand for research in the offshore wind energy sector as it permits taking into account dangerous effects on the structural response so as to increase the global structural safety level University Curricula in the Marine Sciences and Related Fields ,1973 Advances in Maritime Technology and Engineering Carlos Guedes Soares, Tiago A. Santos, 2024-05-08 Advances in Maritime Technology and Engineering comprises a collection of the papers presented at the 7th International Conference on Maritime Technology and Engineering MARTECH 2024 held in Lisbon Portugal on 14 16 May 2024 This Conference has evolved from the series of biannual national conferences in Portugal which have become an international event reflecting the internationalization of the maritime sector and its activities MARTECH 2024 is the seventh of this new series of biannual conferences This book comprises 142 contributions that were reviewed by an International Scientific Committee Advances in Maritime Technology and Engineering is dedicated to maritime

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promotes enhanced accuracy speed and problem solving ability making it an invaluable resource for both students and practicing engineers It equips readers with the critical skills needed to excel in the modern era of AI driven infrastructure projects and complex engineering challenges It serves as a textbook for courses in engineering disciplines such as Ocean Engineering Civil Engineering Structural Engineering Applied Mechanics and Aerospace Engineering and provides students with a deep understanding of the essential principles behind structural analysis and the application of computer aided tools Offers clear explanations real world examples tutorials and MATLAB code in each chapter enabling students to apply theoretical concepts to practical scenarios Includes an Instructors Guide and customized MATLAB files for adopting professors Bridges the gap between academic learning and real world applications helping students develop skills that are directly applicable to current industry demands and infrastructure projects Springer Handbook of Ocean Engineering Manhar R. Dhanak, Nikolaos I. Xiros, 2016-07-23 This handbook is 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 Conversion ERDA Energy Research Abstracts United States. Energy Research and Development Administration, 1977

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