

In Service Inspection Of Mooring Hardware For Floating Structures

Third Edition

Anchoring of Floating Structures Mooring System Engineering for Offshore Structures Handbook of Bottom Founded Offshore Structures Large Floating Structures Very Large Floating Structures Corrosion Control for Offshore Structures Assessment of Materials in Ageing Offshore Structures Permanent anchorages for offshore structures Underwater Inspection and Repair for Offshore Structures Collision and Grounding of Ships and Offshore Structures Ageing and Life Extension of Offshore Structures Proceedings of the 20th International Ship and Offshore Structures Congress (ISSC 2018) Volume 3 Sea Loads on Ships and Offshore Structures Ships and Offshore Structures XIX Hydrodynamics of Multi-purpose Coastal and Offshore Structures Developments in the Collision and Grounding of Ships and Offshore Structures Construction of Marine and Offshore Structures Physical Models and Laboratory Techniques in Coastal Engineering Floating Structures Essentials of Offshore Structures Association de recherche en géotechnique marine (France) Kai-Tung Ma Jan H. Vugts C.M. Wang C.M. Wang Ramesh Singh John V. Sharp FIB – International Federation for Structural Concrete John V. Sharp Jorgen Amdahl Gerhard Ersdal Mirek L. Kaminski O. Faltinsen Carlos Guedes Soares Xuanlie Zhao Carlos Guedes Soares Ben C. Gerwick Jr. Steven A. Hughes N. D. P. Barltrop D.V. Reddy

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the mooring system is a vital component of various floating facilities in the oil gas and renewables industries however there is a lack of comprehensive technical books dedicated to the subject mooring system engineering for offshore structures is the first book delivering in depth knowledge on all aspects of mooring systems from design and analysis to installation operation maintenance and integrity management the book gives beginners a solid look at the fundamentals involved during mooring designs with coverage on current standards and codes mooring analysis and theories behind the analysis techniques advanced engineers can stay up to date through operation integrity management and practical examples provided this book is recommended for students majoring in naval architecture marine or ocean engineering and allied disciplines in civil or mechanical engineering engineers and researchers in the offshore industry will benefit from the knowledge presented to understand the various types of mooring systems their design analysis and operations understand the various types of mooring systems and the theories behind mooring analysis gain practical experience and lessons learned from worldwide case studies combine engineering fundamentals with practical applications to solve today s offshore challenges

offshore engineering continues to develop and expand rapidly while in the public eye its focus has shifted towards subsea and floating developments in ever deeper waters bottom founded structures are still at the industry s heart the fixed structure remains its dependable workhorse and even today newly installed fixed structures far outnumber subsea and floating applications additionally the knowledge and technology that have literally pushed the boundaries of offshore engineering into ever more demanding environments and water depths have been largely pioneered by bottom founded structures an engineer s central skill is to develop coherent and balanced models for the problems encountered regrettably due to availability of ever more sophisticated computer applications this expertise is at risk of getting lost and adopting computer outcomes without truly understanding the models and their limitations is naive risky and unprofessional therefore every engineer needs fundamental knowledge and understanding of underlying theories and technologies this handbook is intended to help offshore engineers acquire and sustain relevant expertise in some notoriously difficult subjects it attempts to stimulate reflection and critical evaluation of the models used and the strengths and weaknesses of the solutions found while dealing more specifically with bottom founded structures the material is generally applicable to offshore structures of all types the handbook can be used as a textbook for master s students and as a manual and reference guide for practising professionals

this book surveys key projects that have seen the construction of large floating structures or have attained detailed conceptual designs this compilation of key floating structures in a single volume captures the innovative features that mark the technological advances made in this field of engineering and will provide a useful reference for ideas analysis design and construction of these unique and emerging urban projects to offshore and marine engineers urban planners architects and students

groundbreaking and comprising articles by expert contributors this volume provides a comprehensive treatment of vlfs and their relationship with the sea marine habitats the pollution of coastal waters and tidal and natural current flow it looks in depth at vlfs and the colonization of ocean space with their appearance in the waters off developed coastal cities wave properties which is essential for estimating the loading on the vlfs as well as for modelling structure fluid interactions hydroelastic and structural analysis of vlfs at an overall level and the cell level the analysis and design of breakwaters simulation models to understand the actual flow of water through the vlfs and to determine the drift forces for the mooring systems anti corrosion and maintenance systems new research and developments with emphasis on the mega float a 1 km long floating test runway well illustrated with photographs drawings equations for mathematical modelling and analysis and extensively referenced very large floating structures is ideal for professionals academics and students of civil and structural engineering

a variable game changer for those companies operating in hostile corrosive marine environments corrosion control for offshore structures provides critical corrosion control tips and techniques that will prolong structural life while saving millions in cost in this book ramesh singh explains the abcs of prolonging structural life of platforms and pipelines while reducing cost and decreasing the risk of failure corrosion control for offshore structures places major emphasis on the popular use of cathodic protection cp combined with high efficiency coating to prevent subsea corrosion this reference begins with the fundamental science of corrosion and structures and then moves on to cover more advanced topics such as cathodic protection coating as corrosion prevention using mill applied coatings field applications and the advantages and limitations of some common coating systems in addition the author provides expert insight on a number of nace and dnv standards and recommended practices as well as iso and standard and test methods packed with tables charts and case studies corrosion control for offshore structures is a valuable guide to offshore corrosion control both in terms of its theory and application prolong the structural life of your offshore platforms and pipelines understand critical topics such as cathodic protection and coating as corrosion prevention with mill applied coatings gain expert insight on a number of nace and dnv standards and recommended practices as well as iso and standard test methods

this book provides essential knowledge and techniques required to assess materials for extending the life of ageing offshore structures used for energy production with over half of these structures currently in a life extension phase the effects of ageing and degradation are at the forefront of the industry the book presents the changes in industry practices and key technological advancements that have shaped the field since its inception it reviews the original properties of the materials employed in offshore structures and provides a deep understanding of their behaviour as they age over time the relevant degradation processes are investigated for offshore structural materials such as steel welds bolted joints concrete grout reinforcement pre tensioning and non metallic materials including coatings and composites materials engineers will be equipped with the necessary tools in this book to evaluate materials in existing ageing structures the book goes beyond theoretical knowledge providing practical insights into assessing the performance of materials in ageing structures with a focus on ensuring the efficient and safe continued use of existing infrastructure engineers will find useful guidance to inform decision making and facilitate the assessment process the book brings together a wide range of research findings relevant to the topic and offers an updated summary of material assessment techniques that are largely difficult or even impossible to access publicly this book is an invaluable resource for practising materials engineers offshore engineering professionals or materials engineering students

underwater inspection and 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 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 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 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 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 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 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 safety auditors working with offshore structures underwater inspection and repair for offshore structures is a comprehensive resource for understanding how to effectively inspect and repair these vulnerable structures

collision and grounding of ships and offshore structures contains the latest research results and innovations presented at the 6th international conference on collision and grounding of ships and offshore structures trondheim norway 17 19 june 2013 the book comprises contributions made in the field of numerical and analytical analysis of

a comprehensive overview of managing and assessing safety and functionality of ageing offshore structures and pipelines a significant proportion estimated at over 50 of the worldwide infrastructure of offshore structures and pipelines is in a life extension phase and is vulnerable to ageing processes this book captures the central elements of the management of ageing offshore structures and pipelines in the life extension phase the book gives an overview of the relevant ageing processes and hazards how ageing processes are managed through the life cycle including an overview of structural integrity management how an engineer should go about assessing a structure that is to be operated beyond its original design life and how ageing can be mitigated for safe and effective continued operation key features provides an understanding of ageing processes and how these can be mitigated applies engineering methods to ensure that existing structures can be operated longer rather than decommissioned unduly prematurely helps engineers performing these tasks in both evaluating the existing structures and maintaining ageing structures in a safe manner the book gives an updated summary of current practice and research on the topic of the management of ageing structures and pipelines in the life extension phase but also meets the needs of structural engineering students and practicing offshore and structural engineers in oil gas and engineering companies in addition it should be of value to regulators of the offshore industry

the international ship and offshore structures congress issc is a forum for the exchange of information by experts undertaking and applying marine structural research the aim of the issc is to facilitate the evaluation and dissemination of results from recent investigations to make recommendations for standard design procedures and criteria to discuss research in progress and planned to identify areas requiring future research and to encourage international collaboration in furthering these aims ships and other marine structures used for transportation exploration and exploitation of resources in and under the oceans are in the scope of the issc the 20th international ship and offshore structures congress issc 2018 was held in liège belgium and amsterdam the netherlands 9 14 september 2018 the first volume of the proceedings contains the eight technical committee reports presented and discussed at the conference and the second volume contains the reports of the eight specialist committees this third volume contains the official discussers reports written discussions and floor discussions and the replies by the committees

after introducing the theory of the structural loading on ships and offshore structures based on the motions of wind waves and currents this text demonstrates its applications to conventional and non conventional sea vessels including extensive exercises and examples

this three volume work presents the proceedings from the 19th international ship and offshore 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 undertaking and applying marine structural research the aim of

the concept of multi purpose marine structures is particularly promising in this era especially for revolutionizing traditional ocean engineering practices however fundamental concepts hydrodynamic methods and design criteria differ significantly from those of traditional marine structures therefore providing insights into the hydrodynamic analysis of these novel structures is crucial for advancing coastal and offshore engineering this book offers a comprehensive introduction of the hydrodynamics of multi purpose coastal and offshore structures targeting engineers and researchers in field of coastal and offshore engineering its main topics include an overview of multi purpose marine structures the formulation of hydrodynamic models and the performance evaluation frameworks tailored for these structures this book provides solutions for evaluating the performance of multi purpose marine structures and designing such structures through the introduction of advanced hydrodynamic methods and detailed case studies readers gain valuable insights into the design process utilizing advanced techniques and the latest research findings overall this book serves as a valuable resource for professionals aiming to navigate the fundamentals involved in the design analysis and performance evaluation of multi purpose marine structures

developments in the collision and grounding of ships and offshore includes the contributions to the 8th international conference on collision and grounding of ships and offshore structures iccgs 2019 lisbon portugal 21 23 october 2019 the series of iccgs conferences started in 1996 in san francisco usa and are organised every three years in europe asia and the americas developments in the collision and grounding of ships and offshore covers a wide range of topics from the behavior of large passenger vessels in collision and grounding collision and grounding in arctic conditions including accidental ice impact stability residual strength and oil outflow of ships after collision or grounding collision and grounding statistics and predictions and measures of the probability of incidents risk assessment of collision and grounding prediction and measures for reduction of collision and grounding new designs for improvement of structural resistance to collisions analysis of ultimate strength of ship structures bulkheads tank tops shell etc design of buffer bows to reduce collision consequences design of foreship structures of ferries with doors to avoid water ingress in case of a collision development of

rational rules for the structural design against collision and grounding innovative navigation systems for safer sea transportation the role of imo classification societies and other regulatory bodies in developing safer ships collision between ships and offshore structures collision between ships and fixed or floating bridges and submerged tunnels collision with quays and waterfront structures collision and grounding experiments properties of marine use materials under impact loadings residual strength of damaged ships and offshore structures analysis of ultimate strength of ship structures to human factors in collision and grounding accidents developments in the collision and grounding of ships and offshore is a valuable resource for academics engineers and professionals involved in these areas

for two decades ben gerwick s ability to capture the current state of practice and present it in a straightforward easily digestible manner has made construction of marine and offshore structures the reference of choice for modern civil and maritime construction engineers the third edition of this perennial bestseller continues to be the most mo

laboratory physical models are a valuable tool for coastal engineers physical models help us to understand the complex hydrodynamic processes occurring in the nearshore zone and they provide reliable and economic engineering design solutions this book is about the art and science of physical modeling as applied in coastal engineering the aim of the book is to consolidate and synthesize into a single text much of the knowledge about physical modeling that has been developed worldwide this book was written to serve as a graduate level text for a course in physical modeling or as a reference text for engineers and researchers engaged in physical modeling and laboratory experimentation the first three chapters serve as an introduction to similitude and physical models covering topics such as advantages and disadvantages of physical models systems of units dimensional analysis types of similitude and various hydraulic similitude criteria applicable to coastal engineering models practical application of similitude principles to coastal engineering studies is covered in chapter 4 hydrodynamic models chapter 5 coastal structure models and chapter 6 sediment transport models these chapters develop the appropriate similitude criteria discuss inherent laboratory and scale effects and overview the technical literature pertaining to these types of models the final two chapters focus on the related subjects of laboratory wave generation chapter 7 and measurement and analysis techniques chapter 8

essentials of offshore structures framed and gravity platforms examines the engineering ideas and offshore drilling platforms for exploration and production this book offers a clear and acceptable demonstration of both the theory and application of the relevant procedures of structural fluid and geotechnical mechanics to offshore structures it

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