



Deepwater Mooring Systems

L. M. Harris



Deepwater Mooring Systems:

Deepwater Mooring Systems Jun Zhang, Richard Steven Mercier, 2003 This collection contains 24 papers presented at the 2003 International Symposium on Deepwater Mooring Systems Concepts Design Analysis and Materials held in Houston Texas October 2 3 2003 *Deepwater Mooring Systems*, 2003 **Deepwater Mooring Systems**, 2004 **Development of Design Tool for Statically Equivalent Deepwater Mooring Systems** Ikpoto Enefiok Udoh, 2010 Verifying the design of floating structures adequately requires both numerical simulations and model testing a combination of which is referred to as the hybrid method of design verification The challenge in direct scaling of moorings for model tests is the depth and spatial limitations in wave basins It is therefore important to design and build equivalent mooring systems to ensure that the static properties global restoring forces and global stiffness of the prototype floater are matched by those of the model in the wave basin prior to testing A fit for purpose numerical tool called STAMOORSYS is developed in this research for the design of statically equivalent deepwater mooring systems The elastic catenary equations are derived and applied with efficient algorithm to obtain local and global static equilibrium solutions A unique design page in STAMOORSYS is used to manually optimize the system properties in search of a match in global restoring forces and global stiffness Up to eight mooring lines can be used in analyses and all lines have the same properties STAMOORSYS is validated for single line mooring analysis using LINANL and Orcaflex and for global mooring analysis using MOORANL and Orcaflex A statically equivalent deepwater mooring system for a representative structure that could be tested in the Offshore Technology Research Center at Texas A M University is then designed using STAMOORSYS and the results are discussed **Modal Analysis of Deepwater Mooring Lines Based on a Variational Formulation** Jose Alberto Martinez Farfan, 2013 Previous work on modal analysis of mooring lines has been performed from different theoretical formulations Most studies have focused on mooring lines of a single homogeneous material and the effect of added mass and damping produced by the water has not been examined deeply The variational formulation approach employed in this research to perform a modal analysis has been useful to study the behavior of several realistic mooring lines The cases presented are composed from segments of materials with different mechanical characteristics more similar to those in current offshore projects In the newly proposed formulation damping produced by transverse motion of the mooring line through the surrounding water has been added to the modal analysis The modal analysis formulation applied in this work has been verified with calculations from commercial software and the results are sufficiently accurate to understand the global behavior of the dynamics of mooring lines with the damping produced by the sea water Inclusion of linearized drag damping in the modal analysis showed that the modal periods of the mooring systems studied depend on the amplitude of the transverse motion of the mooring line When more amplitude in the motion is expected more damping is obtained Two realistic designs of mooring lines were compared one made up with a main insert of steel rope called Steel System and one composed by a main insert of polyester named Polyester System Comparing the

natural periods of both systems the Steel System appears to be safer because its fundamental natural period is more distant from the wave excitation periods produced by storms The same happens considering the wave excitation periods produced by prevailing seas In this case the natural periods of the Polyester System are nearer to the wave excitation periods causing fatigue loads The transverse mode shapes for lateral motions of the mooring lines are observed to be continuous and smooth across material transitions such as transitions between chain and wire rope and transitions between chain and polyester rope This behavior is not always observed in the tangential mode shapes for the Polyester System where significant differences in dynamic tension seem to be present in the specific cases studied The electronic version of this dissertation is accessible from <http://hdl.handle.net/1969.1/149500> **Mooring System Engineering for Offshore Structures** Kai-Tung Ma,Yong Luo,Chi-Tat Thomas Kwan,Yongyan Wu,2019-06-04 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 **Deepwater Foundations and Pipeline Geomechanics** William O.

McCarron,2011-09-15 Practicing engineers in the offshore and reservoir engineering industry will find this timely volume filled with practical advice and expert information on current oil field development from oil exploration to production

Deepwater Mooring and Drilling American Society of Mechanical Engineers. Ocean Engineering Division,1979

Deepwater Drilling Peter Aird,2018-12-03 **Deepwater Drilling Well Planning Design Engineering Operations and Technology Application** presents necessary coverage on drilling engineering and well construction through the entire lifecycle process of deepwater wells Authored by an expert with real world experience this book delivers illustrations and practical examples throughout to keep engineers up to speed and relevant in today s offshore technology Starting with pre planning stages this reference dives into the rig s elaborate rig and equipment systems including ROVs rig inspection and auditing procedures Moving on critical drilling guidelines are covered such as production casing data acquisition and well control Final sections cover managed pressure drilling top and surface hole riserless drilling and decommissioning

Containing practical guidance and test questions this book presents a long awaited resource for today's offshore engineers and managers. Helps readers gain practical experience from an author with over 35 years of offshore field know how. Presents offshore drilling operational best practices and tactics on well integrity for the entire lifecycle of deepwater wells. Covers operations and personnel from emergency response management to drilling program outlines.

Reliability Assessment of Foundations for Offshore Mooring Systems Under Extreme Environments Young Jae Choi, 2007. Mooring systems for floating facilities that are used offshore to produce oil and gas consisting of individual mooring lines and foundations are currently designed on the basis of individual components and on a case by case basis. The most heavily loaded line and anchor are checked under extreme loading conditions hurricane and loop current with the system of lines intact and with one line removed. However the performance of the entire mooring system depends more directly on the performance of the system of lines and foundations rather than on the performance of a single component. In this study a floating production system design originally developed by the industry consortium DeepStar was chosen for study. The mooring system was designed for three different nominal water depths 1000 2000 and 3000 m. It is a classic spar with steel mooring lines in 1000 m of water and polyester mooring lines in deeper depths. Based on simulated results of loads on mooring lines and foundations using a numerical model reliability analyses were conducted using representative probabilistic descriptions of the extreme met ocean conditions hurricanes and loop currents in the Gulf of Mexico. The probability of failure of individual mooring line components during a 20 year design life is calculated first followed by that of a complete mooring line which consists of top and bottom chains a steel cable or polyester rope at the middle and a suction caisson foundation and finally that of the mooring system. It is found that foundations have failure probabilities that are more than an order of magnitude smaller than those for lines under extreme loading. Mooring systems exhibit redundancy in that the failure of the most heavily loaded component during an extreme event does not necessarily lead to failure of the system. The system reliability and redundancy are greater for the taut versus semi taut systems and is greater for designs governed by loop current versus hurricane events. Although this study concerns about the mooring systems of a classical spar the methodology of the reliability analysis and the conclusions made in this study may have important implications to the other deepwater mooring systems.

Riser and Mooring Systems - Life Cycle Design for Integrity, 1999

Progress in the Analysis and Design of Marine Structures Carlos Guedes Soares, Y. Garbatov, 2017-04-28. Progress in the Analysis and Design of Marine Structures collects the contributions presented at MARSTRUCT 2017 the 6th International Conference on Marine Structures Lisbon Portugal 8-10 May 2017. The MARSTRUCT 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 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 addressing topics in the areas of Methods and Tools for Loads 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 and Structural Reliability Safety and Environmental Protection 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 offshore structures **Behavior of Catenary Moorings in Ultra-deep Water** Clifford Martin Fischer,1989

Advances in Renewable Energies Offshore Carlos Guedes Soares,2018-10-03 Advances in Renewable Energies Offshore is a collection of the papers presented at the 3rd International Conference on Renewable Energies Offshore RENEW 2018 held in Lisbon Portugal on 8 10 October 2018 The 104 contributions were written by a diverse international group of authors and have been reviewed by an International Scientific Committee The book is organized in the following main subject areas Modelling tidal currents Modelling waves Tidal energy devices design applications and experiments Tidal energy arrays Wave energy devices point absorber multibody applications control experiments CFD coastal OWC OWC and turbines Wave energy arrays Wind energy devices Wind energy arrays Maintenance and reliability Combined platforms Moorings and Flexible materials Advances in Renewable Energies Offshore collects recent developments in these fields and will be of interest to academics and professionals involved in the above mentioned areas **The Inspection of Deepwater Catenary**

Moorings Systems for Floating Production Platforms I. T. O. Thompson,1986 *Design for Reliability in Deepwater Floating Drilling Operations* L. M. Harris,1979 *Proceedings of the ... International Offshore Mechanics and Arctic Engineering Symposium* ,1986 Encyclopedia of Ocean Engineering Weicheng Cui,Shixiao Fu,Zhiqiang Hu,2022-06-29

This encyclopedia adopts a wider definition for the concept of ocean engineering Specifically it includes 1 offshore engineering fixed and floating offshore oil and gas platforms pipelines and risers cables and moorings buoy technology foundation engineering ocean mining marine and offshore renewable energy aquaculture engineering and subsea engineering 2 naval architecture ship and special marine vehicle design intact and damaged stability technology for energy efficiency and green shipping ship production technology decommissioning and recycling 3 polar and Arctic Engineering ice mechanics ice structure interaction polar operations polar design environmental protection 4 underwater technologies AUV ROV design AUV ROV hydrodynamics maneuvering and control and underwater specific communicating and sensing systems for AUV ROVs It summarizes the A Z of the background and application knowledge of ocean engineering for use by ocean scientists and ocean engineers as well as nonspecialists such as engineers and scientists from all disciplines economists students and politicians Ocean engineering theories ocean devices and equipment ocean design and operation technologies are described by international experts many from industry and each entry offers an introduction and references for further study making current technology and operating practices available for future generations to learn from The book also furthers our understanding of the current state of the art leading to new and more efficient technologies with breakthroughs from new theory and materials As the land resources approach the exploitation limit ocean resources are becoming the next

choice for the sustainable development As such ocean engineering is vital in the 21st century *Hart's E & P.* ,2003

Offshore Single Point Mooring Systems for Import of Hazardous Liquid Cargoes Aaron Matthew Salancy,Robert
G. Bea,1994

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