

Yingguang Wang

Stochastic Dynamic Response and Stability of Ships and Offshore Platforms

Stochastic Response Of Offshore Platforms Cdrom Hc 1998

Alexandra Kardara



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The British National Bibliography Arthur James Wells,2005 *Stochastic Response of Offshore Platforms by Methods of Statistical Linearization, Quadraticization and Cubicization* Xiaoming Li,1995 *Stochastic Response Analysis of Offshore Structures* Chryssanthi Evangelou Paliou,1987 **Stochastic Response of Fixed Offshore Structures in Random Sea** Demosthenes Constantinos Angelides,Massachusetts Institute of Technology. Department of Civil Engineering,1978 **Stochastic Dynamic Response of Fixed Offshore Structures** Kwabena Asante,1988 Response Analysis of Stochastic Structures and Reliability of Offshore Structures Alexandra Kardara,1988 **Stochastic Response of Prototype Offshore Structure** Michael G. Grecco,Robert T. Hudspeth,Oregon State University. Sea Grant College Program,1983* **A Stochastic Model for the Response of Permanent Offshore Structures Subject to Soil Restraints and Wave Forces** Billy L. Edge,Paul G. Mayer,Paul Gustav Wilhelm Mayer,1969 **Stochastic Dynamic Response and Stability of Ships and Offshore Platforms** Yingguang Wang,2023-10-24 This textbook investigates in detail the methods for stochastic dynamic response and stability analyses of nonlinear systems especially ships and ocean engineering systems elucidating the advantages and disadvantages of each of the methods the statistical linearization method the perturbation method the Monte Carlo Simulation method the numerical path integration method the global geometric method and the first passage theory Studies on stochastic dynamic analysis of nonlinear systems have attracted engineers and scientists from various disciplines such as aeronautical civil mechanical and ocean engineering Pursuing a systematic approach this book establishes a fundamental framework for this topic while emphasizing the importance of accurate and efficient analysis as well as the significant influence of choosing a suitable method in the design and optimization of various nonlinear engineering systems especially ships and ocean engineering systems The textbook is intended for upper undergraduate and graduate students who are interested in advanced dynamic analysis technologies researchers investigating nonlinear systems under stochastic dynamic excitations and civil mechanical structural ocean engineers working on designing and optimization of real world nonlinear engineering systems The basis of English translation of this book from its Chinese original manuscript was done with the help of artificial intelligence A subsequent human revision of the content was done by the author **Dynamic Response and Safety of Offshore Platforms Using the Random Decrement Technique** Edward Rene Larach,1982 Three-dimensional Stochastic Response of Offshore Towers to Wave Action Bent Berge,Joseph Penzien,1975 Non-Gaussian Stochastic Dynamic Response and Fatigue of Offshore Structures Jin Wang,1992 **Dynamic Analysis of Fixed Offshore Platforms Subject to Non-linear Hydrodynamic Loading** Bijan Iraninejad,1988 **Prediction of the Damping-controlled Response of Offshore Structures to Random Wave Excitation** John Kim Vandiver,1980 Stochastic Response of a Tension Leg Platform to Wind and Wave Fields Yousun Li,1988 Probabilistic Response Analysis of Offshore Platforms to Wave Loading

Chang-Chun Hsieh,1991 Stochastic Response of Tension Leg Platform to Wave and Current Forces Jun-Hee Lee,1988

Dynamic Response of Fixed Offshore Platforms to Environmental Loads Azin Azarhoushang,2010 In this thesis a simplified method for dynamic response of jacket type offshore structures to extreme environmental load is investigated using existing experience and the procedures available within the industry Fixed Jacket type offshore platforms may under extreme wave loading conditions exhibit significant nonlinear behavior This must be accounted for in the design of such platforms in order to ensure satisfactory structural safety The complicated and nonlinear dynamic platform behavior implies that a wide number of significant uncertainties are introduced to the design process through the included mathematical models analysis methods and the practical use of these methods The major sources of nonlinear behavior are the wave loading the damping mechanisms and the soil structure interaction The inclusion of nonlinear dynamic platform behavior in the design process implies that nonlinear stochastic dynamic response based on time domain simulation methods must be applied Time domain stochastic dynamic response analysis is an analysis method which will be a central element of the procedure However it seems not to be clear so far how this method should be integrated in a practical design procedure Initially an overview of the different sources of nonlinear platform behavior is clarified with the underlying mechanism Furthermore it is outlined how those nonlinear effects may be accounted for with a special focus on estimation of extreme response and dynamic amplification factors The discussion and outlines are illustrated by an example of fixed offshore platform Finally the practical use of the method in the design of fixed jacket type offshore platforms is recommended

Jahresbericht des Vereins Kunsthalle Bern 1977-1978 ,1978 **The Effect of Liquid Storage Tanks on the Dynamic Response of Offshore Platforms** Shuhei Mitome,1977

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