

# **Dynamic Analysis Of Offshore Structures**

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# **Dynamic Analysis Of Offshore Structures:**

Dynamic Analysis of Offshore Structures and Identification of Structural Dynamic Systems Chung-Bang Yun, 1978 **Dynamic Analysis of Offshore Structures** C.A. Brebbia, S. Walker, 2013-10-22 Dynamic Analysis of Offshore Structures appraises offshore structures particularly the major sources of uncertainty in the design process. The book explains the fundamentals of probabilistic processes the theory or analysis of sea states and the random vibration approach to structural response The text describes the hydrodynamics of water waves wave forecasting and the statistical parameters associated with sea states The investigator can use Morison's equation to calculate the impact of wave forces acting on slender members such as on lattice type structures Or he can employ the diffraction theory to calculate wave forces acting on large diameter bodies such as concrete gravity type structures Other environmental forces he should be concerned with are the effects of currents and winds The book examines the theory of vibration including the spectral approach the theory of vibration on multi degree of freedom structures matrix analysis of structural response problems of fatigue and soil structure interaction The book notes the importance of the method of analysis used with emphasis on the following dynamic analysis frequency domain and linearization of drag Two types of analysis follow linearization of drag deterministic analysis applied in a series of design waves which uses the long term exceedance diagram for fatigue or probabilistic analysis used to study the behavior of the structure during the extreme design storm and its long term behavior for a range of sea states The book can prove useful for structural civil or maritime engineers as well as for students in one year courses in offshore structure analysis at the postgraduate or final year undergraduate level **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 to students and researchers working in the field Probabilistic Dynamic Analysis of Offshore Structures A. D. Trim, Cranfield Institute of

Dynamic Analysis of Offshore Technology, 1986 Dynamic Analysis of Offshore Structures Colin L. Kirk, 1982 Structures Masanobu Shinozuka, Chung-Bang Yun, 1978 Static and Dynamic Analysis of Offshore Structures Ehsan Esmaeel Heshmati, University of Manchester. Manchester School of Engineering, 1983 Simplified Dynamic Analysis of Offshore Structures Jitendra R. Sanghvi, 1990 **Simplified Methods for Dynamic Analysis of Offshore Structures** Reina I. Carnevali Espinoza, 1982 Dynamic Analysis of Offshore Structures Hisham Mohammed Mitwally, 1987 Nonlinear Dynamic Analysis of Offshore Structures R. Ghadimi, Cranfield Institute of Technology, 1986 **Approximate** Method for Dynamic Analysis of Offshore Structures to Wave Action Ming-Tian Chang, 1988 **Nonlinear Dynamic Analysis of Offshore Structures** Masanobu Shinozuka, Y.-K. Wen, 1971 **Uncertainty Quantification in the Dynamic Analysis of Offshore Structures** HyeongUk Lim, 2019 Consideration for uncertainty is critical in problems associated with structural dynamics especially in the offshore environment Deterministic solutions are often insufficient to achieve confidence in computational results and for use in design In uncertainty quantification UQ for problems dealing with many random or stochastic sources surrogate models are often developed to reduce costs associated with running a truth model to verify response levels associated with low probability Polynomial chaos expansion PCE is one approach used in developing such surrogate models However conventional PCE relies on parametric families to define the polynomials for expansion Also for high dimensional problems PCE can be inefficient if appropriate dimension reduction is not employed Arbitrary PCE aPCE approaches based on Gram Schmidt orthogonalization can be used to define polynomials in terms of the uncertain variables and offers a non parametric option for UQ An aPCE approach that can systematically account for multivariate stochasticity is developed in this study Dimension reduction can aid in developing computationally efficient surrogate models in this study a gradient based active subspace approach that identifies dominant influences on a model output s variability is employed for dimension reduction Both aPCE and active subspace dimension reduction are employed in studies that are focused on the dynamics of offshore structures and on low probability events of interest This dissertation represents a collection of four papers that deal with PCE surrogate modeling and dimension reduction Each paper representing a separate chapter contributes to the development of accurate and efficient UQ approaches for offshore structure dynamics problems involving various sources of uncertainty We demonstrate the proposed approaches in different applications I estimation of fatigue damage in a marine riser due to vortex induced vibration II prediction of the long term extreme response of a moored floating structure III surrogate model development for structural reliability analysis and IV dimension reduction in the extreme response prediction of offshore structures Nonlinear Dynamic Analysis of Offshore Structures ,2009 In this thesis consideration is given to a selection of nonlinear dynamic problems in the field of offshore engineering Hydrodynamic loading on fixed horizontal and vertical tubular members and the dynamic response of articulated towers together with the distribution of shear force and bending moment along the tower are investigated using various wave theories Effects of

nonlinear convective acceleration terms in the calculation of fluid inertia forces and moments are examined and attention is given to integration of wave forces up to the free surface for vertical members Calculation of fluid loading at the displaced position of the articulated tower and any Mathieu type instabilities that may occur have been considered. The dynamic analysis of a damaged Single Anchor Leg Storage SALS system subject to loss of buoyancy in the yoke chamber is studied The equations of motion of the yoke riser system are derived assuming large displacements and solved in the time domain Time histories of the response variations of the riser tension velocities of riser top end and the time histories of pivot reactions are given Natural periods and mode shapes for small displacements of the system are calculated Two methods of simulating random seas both represented by a sum of harmonic wave components are used to simulate second order low frequency slow drift force on a tanker in head seas by Pinkster's time domain method. In one method the wave amplitudes are generated randomly from a Rayleigh distribution and in the other they are obtained deterministically via the wave spectrum Time histories of slow drift force and response together with simulation results with various duration lengths are presented and compared Estimates of the extreme vessel response and its relation to rms value are compared with the result of a commonly used method of determining peak rms ratios. The results of these investigations highlight the importance of accurately simulating nonlinear effe **Choosing Numerical Increment Values for the Dynamic Analysis of Offshore** Structures M.J. Mes, Nonlinear and non-Gaussian random dynamic analysis of offshore structures (I) Tsung-Wu Lin, I. C. Tsai, D. H. Tsaur, Guo li Taiwan da xue. Center for Earthquake Engineering Research, 1988 Dynamic Analysis of Pile-supported Offshore Structures William Samuel Gaither, 1964 **Non-linear Dynamic Analysis of Space-framed** Offshore Structures ,1988 Nonlinear Dynamic Analysis of Caisson-type Offshore Structures Ibrahim R. Soudy, T. M. Hrudev,1989

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