

Stochastically Excited Nonlinear Ocean Structures

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Stochastically Excited Nonlinear Ocean Structures

Manhar R. Dhanak, Nikolaos I. Xiros



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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

IUTAM Symposium on Nonlinear Stochastic Dynamics N. Sri Namachchivaya, Y.K. Lin, 2003-11-30 Non linear stochastic systems are at the center of many engineering disciplines and progress in theoretical research had led to a better understanding of non linear phenomena This book provides information on new fundamental results and their applications which are beginning to appear across the entire spectrum of mechanics The outstanding points of these proceedings are Coherent compendium of the current state of modelling and analysis of non linear stochastic systems from engineering applied mathematics and physics point of view Subject areas include Multiscale phenomena stability and bifurcations control and estimation computational methods and modelling For the Engineering and Physics communities this book will provide first hand information on recent mathematical developments The applied mathematics community will benefit from the modelling and information on various possible applications

Bounded Noises in Physics, Biology, and Engineering Alberto d'Onofrio, 2013-09-12 Since the parameters in dynamical systems of biological interest are inherently positive and bounded bounded noises are a natural way to model the realistic stochastic fluctuations of a biological system that are caused by its interaction with the external world Bounded Noises in Physics Biology and Engineering is the first contributed volume devoted to the modeling of bounded noises in theoretical and applied statistical mechanics quantitative biology and mathematical physics It gives an overview of the current state of the art and is intended to stimulate further research The volume is organized in four parts The first part presents the main kinds of bounded noises and their applications in theoretical physics The theory of bounded stochastic processes is intimately linked to its applications to mathematical and statistical physics and it would be difficult and unnatural to separate the theory from its physical applications The second is devoted to framing bounded noises in the theory of random dynamical systems and random bifurcations while the third is devoted to applications of bounded stochastic processes in biology one of the major areas of potential applications of this subject The final part concerns the application of bounded stochastic processes in mechanical and structural engineering the area where the renewed interest for non Gaussian bounded noises started Pure mathematicians working on stochastic calculus will find here a rich source of problems that are challenging from the point of view of contemporary nonlinear analysis Bounded Noises in Physics Biology and Engineering is intended for scientists working on stochastic processes with an interest in both fundamental issues and applications It will appeal to a broad range of applied mathematicians mathematical biologists physicists engineers and researchers in other fields interested in complexity theory It is accessible to anyone with a working knowledge of stochastic modeling from advanced undergraduates to senior researchers

IUTAM Symposium on New Applications of Nonlinear and Chaotic Dynamics in Mechanics Francis C. Moon, 2012-12-06 It is two decades since Mitchell Feigenbaum's landmark papers on period doubling and the modern beginnings of what is now called Chaos Theory From the very beginning mechanics has been a central focus for modern nonlinear dynamical systems Fluid structural machine and rigid

body dynamics has been a fertile field for nonlinear phenomena and chaos in particular Early experimental evidence for chaotic phenomena in mechanics gave the new chaos theory a mark of credibility importance and relevance that its earlier sister field catastrophe theory did not achieve The fact that mechanics straddles both physics and engineering also meant that mechanics became a pathway for direct application of chaos theory to applied problems So what is new in nonlinear dynamics and mechanics today First the scope of applications in solid mechanics has broadened to cover material processing inelasticity and fracture mechanics In rigid body dynamics more complex systems such as vehicles robotics and controlled machines have come into the purview of nonlinear dynamicists On the mathematics side of nonlinear dynamics it is now recognized that spatio temporal problems hysteretic and time delay problems are the new frontiers in this field Also the term complexity has been added to the lexicon of chaos theory to describe the dynamics of many interacting sub systems which can exhibit self organization and evolution Complexity analysis has gained a foothold in biological and some social sciences as well in fluid and chemical physics

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

Uncertainty Quantification for Hyperbolic and Kinetic Equations Shi Jin, Lorenzo Pareschi, 2018-03-20 This book explores recent advances in uncertainty quantification for hyperbolic kinetic and related problems The contributions address a range of different aspects including polynomial chaos expansions perturbation methods multi level Monte Carlo methods importance sampling and moment methods The interest in these topics is rapidly growing as their applications have now expanded to many areas in engineering physics biology and the social sciences Accordingly the book provides the scientific community with a topical overview of the latest research efforts

The Shock and Vibration Digest ,1986 Applied mechanics reviews ,1948

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