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Nonlinear Dynamics And Stochastic Mechanics

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This volume contains the proceedings of the International Symposium on Nonlinear Dynamics and Stochastic Mechanics held at The Fields Institute for Research in Mathematical Sciences from August-September (1993) as part of the 1992-1993 Program Year on Dynamical Systems and Bifurcation Theory.

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Nonlinear Dynamics & Stochastic Mechanics: Presented at the 2000 Asme International Mechanical Engineering Congress and Exposition, November 5-10, 2000, Orlando, Florida (Amd Series) by American Society of Mechanical Engineers.

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The significant advances in nonlinear stochastic dynamics and control in Hamiltonian formulation during the past decade are reviewed. The exact stationary solutions and equivalent nonlinear system method of Gaussian-white -noises excited and dissipated Hamiltonian systems, the stochastic averaging method for quasi Hamiltonian systems, the stochastic stability, stochastic bifurcation, first-passage time and nonlinear stochastic optimal control of quasi Hamiltonian systems are summarized.

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Abstract: Many physical systems characterized by nonlinear multiscale interactions can be effectively modeled by treating unresolved degrees of freedom as random fluctuations. However, even when the microscopic governing equations and qualitative macroscopic behavior are known, it is often difficult to derive a stochastic model that is consistent with observations.

[2009.01006] Nonlinear stochastic modeling with Langevin ...

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Nonlinear dynamics and stochastic mechanics (Book, 1996 ...

ABSTRACT The topology of phase portraits for nonlinear oscillators driven by a periodic force undergoes significant changes within a narrow interval of the driving force frequencies ν . This property leads to nonintegrability of the equations of motion, and stochastization of their solutions when ν is periodically modulated.

Stochastic dynamics of a nonlinear oscillator driven by ...

The mean upcrossing rate of the stationary responses of nonlinear stochastic system excited by white noise is analyzed based on the assumption that the probability density function (PDF) of the responses is a linear superposition of basic functions. The Gaussian PDFs are used as the basic functions of which the coefficients are the reciprocal of the number of the basic functions.

Crossing Rate Analysis with a Non-Gaussian Closure Method ...

Dynamics of a Nonlinear Energy Harvesting System in Time-Delayed Feedback Control under Stochastic Excitations A time-delayed feedback control is applied to a nonlinear piezoelectric energy harvesting system excited by additive and multiplicative Gaussian white noises to improve its energy harvesting performance.

Dynamics of a Nonlinear Energy Harvesting System in Time ...

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1997 ASME Symposium on Nonlinear Dynamics and Stochastic Mechanics: "Vibration Absorber for Flexible Structures: Experimental Study Under Random and Sinusoidal Excitations"

1997 ASME Symposium on Nonlinear Dynamics and Stochastic ...

"A Time-Domain Reliability Assessment Technique for nonlinear Structures," Advances in Stochastic Structural Dynamics, Proceedings of the 5 th International Conference on Stochastic Structural Dynamics - SSD03, Edited by W.Q. Zhu, G.Q. Cai, and R.C. Zhang, .

IUTAM Symposium on Advances in Nonlinear Stochastic Mechanics

The purpose of Part 1 of this paper is to provide a review of recent results from 1991 through 2003

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in the area of theoretical aspects of statistical and equivalent linearization in the analysis of structural and mechanical nonlinear stochastic dynamic systems.

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