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previous one, held in

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qual itative and

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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

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macroscopic behavior

are known, it is often

difficult to derive a
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is consistent with
observations.

[2009.01006]

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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.

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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

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used as the basic functions of which the coefficients are the reciprocal of the number of the basic functions.

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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
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Harvesting System
in Time ...**

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Analysis and Nonlinear

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our goal is to

understand, predict,

and/or optimize

complex engineering

and environmental

systems where

uncertainty or

stochasticity is equally

important with the

dynamics.

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G.Q. Cai, and R.C.
Zhang, .

**IUTAM Symposium
on Advances in
Nonlinear Stochastic
Mechanics**

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