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Analysis of Complex Nonlinear Mechanical Systems, The: A ...

A method for modal analysis of non-linear and non-conservative mechanical systems is proposed. In particular, dry-friction non-linearities are considered although the method is not restricted to these. Based on the concept of complex non-linear modes, eigensolutions are written as generalized Fourier series and the eigenproblem is then formulated in the

Complex Non-Linear Modal Analysis for Mechanical Systems

Nonlinear modes provide a mathematical and practical framework for the vibration analysis of nonlinear mechanical systems. Theoretical origins of this concept lies in Rosenberg's works while many further developments have

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then been proposed,,,,.

Complex non-linear modal analysis for mechanical systems ...

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The Analysis of Complex Nonlinear Mechanical Systems: A ...

Complex nonlinear modal analysis In this section, the modal characteristics are calculated and analyzed based on the solution method built in the previous section. The calculation parameters are given as $\xi = 0.05$, $\gamma = 0.1$, $R_0 = 1.05$, $\mu = 0.15$, $R_{\text{disk}} = 20 R_0$, $\Omega = 0.1$, and the number of harmonic terms k is chosen as 5 in following study.

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Nonlinear dynamic analysis using the complex nonlinear ...

The development of numerical methods for the nonlinear analysis of structures has attracted much attention during the past several years.¹⁻⁶ Most of the investigations have been concerned with the analysis of a particular type of structure and nonlinearity. The purpose of this paper is to present a general solution

Nonlinear dynamic analysis of complex structures

Indeed, available data, be it physical, biological, or financial, and technological complex systems, such as mechanical or electronic devices, can be managed from the same conceptual approach, both analytically and through computer simulation, using effective nonlinear dynamics methods.

Nonlinear Dynamics of Complex Systems | Hindawi

In this work, biaxial tensile experiments

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on a typical SSA envelope fabric are first performed to describe the nonlinear mechanical properties based on the response surface method, and a nonlinear material model for numerical analysis is developed.

Initial Configuration and Nonlinear Mechanical Analysis of ...

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For complex nonlinear systems, this means the output (behavior) of the system is not a weighted sum of independent variables or parameters. This is as true for human behavior as it

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Series On Nonlinear Science

Nonlinear methods for understanding complex dynamical

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Nonlinear, Dynamic ...

In mathematics and science, a nonlinear system is a system in which the change of the output is not proportional to the change of the input. Nonlinear problems are of interest to engineers, biologists, physicists, mathematicians, and many other scientists because most systems are inherently nonlinear in nature.

Nonlinear system - Wikipedia

Nonlinear systems are known to exhibit rich and complex dynamical behaviors, which linear systems cannot. These behaviors include, for instance, modal interactions, detached resonance curves, quasiperiodic oscillations, bifurcations and chaos.

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Abstract This paper presents the systematic use of numerical analysis as a tool for addressing some of the most common challenges encountered in the structural analysis of complex historical

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Nonlinear Numerical Modeling of Complex Masonry Heritage ...

The Analysis of Complex Nonlinear Mechanical Systems: a computer algebra assisted approach By Martin Lesser Department of Mechanics, Royal Institute of Technology S-100 44, Stockholm Sweden. Text Published by World Scientific Press, October 1995. This book is number 17 in the series on Nonlinear Science edited by Professor Leon Chua of the ...

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Li, H., Xie, J., and Wei, W. (May 29,
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