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Combines nonlinear vibration and control in an integrated manner Provides extensive coverage of control engineering Presents additional experimental results and further problems throughout

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Nonlinear Vibration with Control: For Flexible and ...

Nonlinear Vibration with Control For Flexible and Adaptive Structures. Authors: Wagg, David, Neild, Simon

Nonlinear Vibration with Control - For Flexible and ...

In this paper, the author proposes several approaches to nonlinear optimal-based control implementation. The vibrating system (structure) equipped with two tuned vibration absorbers

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(TVAs) is analysed against a system with one TVA. For control purposes, MR dampers are used instead of TVAs' passive viscous dampers. The main contribution of this research is the development and numerical ...

Nonlinear optimal-based vibration control for systems with ...

In this paper, a new nonlinear vibration control scheme using piezoelectric actuator is proposed for a flexible plate with a free vibration and sudden perturbations. First, the effect of hysteresis...

Operator-based nonlinear free vibration control of a ...

Applying control to the structure to limit unwanted vibration and to effect any shape changes also requires detailed knowledge of the vibration characteristics. This chapter introduces the basic ideas of nonlinear vibration and control, which will be used in

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later chapters to underpin the analysis of more complex structural elements.

Introduction to Nonlinear Vibration and Control | SpringerLink

A new Nonlinear Modified Positive Position Feedback (NMPPF) controller is proposed in this paper to suppress the nonlinear resonant vibrations in flexible structures. The NMPPF uses a nonlinear second-order feedback compensator to overcome the vibrations at exact primary resonance frequency, and a first-order integrating term to lower the remaining peak amplitudes in the frequency domain.

Nonlinear Vibration Control of Flexible Structures Using

...

The applications of the nonlinear energy sink in civil engineering include two main aspects: first, vibration control of building

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structures under earthquakes or shock loads, and second, vibration control of bridge structures subjected to vehicle load or wind load.

Nonlinear dissipative devices in structural vibration ...

Compared with other vibration control methods, the nonlinear energy sink (NES) only has a small part of vibration energy flowing back to the primary system during energy dissipation process , , which is called target energy transfer (TET) , , and it made the NES become a widely used device in the field of vibration control.

A multifunctional lattice sandwich structure with energy

...

This chapter introduces the basic ideas of nonlinear vibration and control, which will be used in later chapters to underpin the analysis of more complex structural elements.

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Introduction to Nonlinear Vibration and Control | Request PDF

Nonlinear vibration and control · Yu Wang, Fengming Li, Xingjian Jing, Yize Wang, Nonlinear vibration analysis of double layered nanoplates with different boundary conditions, Physics Letters A, Volume 379, Issues 24-25, Pages 1532-1537, 31 July 2015

Nonlinear Dynamics, Vibration & Control (NDVC) Group

A nonlinear energy sink (NES) approach is proposed for whole-spacecraft vibration reduction. Frequency sweeping tests are conducted on a scaled whole-spacecraft structure without or with a NES attached.

Nonlinear Energy Sink for Whole-Spacecraft Vibration ...

AIMS AND OBJECTIVES...contd To implement the nonlinear viscous damping characteristic using a simulated model of an

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MR damper. To design a controller to track the desired nonlinear viscous damping force. Finally, to analyze and compare the force transmissibility of the vibration isolation system with

By Diala Uchenna

An additional section on passive vibration control, including nonlinear vibration mounts. A more in-depth description of semi-active control, including switching and continuous schemes for dampers and other semi-active systems. A complet

Nonlinear Vibration with Control | SpringerLink

A Brief Introduction to Nonlinear Vibrations Anindya Chatterjee
Mechanical Engineering, Indian Institute of Science, Bangalore
anindya100@gmail.com February 2009 I have used these in the
past in a lecture given at RCI (Hyderabad), as well as during a
summer program at IISc organized by the now-defunct
"Nonlinear Studies Group." 1 General ...

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A Brief Introduction to Nonlinear Vibrations

nonlinear control systems have been developed, ranging from digital "fly-by-wire" flight control systems for aircraft, to "drive-by-wire" automobiles, to advanced robotic and space systems. As a result, the subject of nonlinear control is occupying an increasingly important place in automatic control engineering, and has become a

Slotine • Li APPLIED NONLINEAR CONTROL

Structural control plays an important role in suppressing structural vibration under different loads. During a severe earthquake, a structure will exhibit nonlinear behaviors. In this case, the control method for structural nonlinear vibration is important for further study.

Semiactive Control of Structural Nonlinear Vibration ...

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The Linear and Nonlinear Dynamics and Vibrations Laboratory (LNDVL) at the University of Illinois was formed as the result of a merger, in 1998, of Dr. Alexander Vakakis's and Dr. Lawrence A. Bergman's own laboratories. With the addition of Dr. Michael McFarland to the group, and with the assistance of the Departments of Mechanical Science and Engineering (MechSE) and Aerospace Engineering ...

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Vibration Control of Automotive Drive System with Nonlinear Gear Backlash Article (PDF Available) in Journal of Dynamic Systems Measurement and Control · August 2019 with 178 Reads

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