

Nonlinear Vibration With Control For Flexible And Adaptive Structures Solid Mechanics And Its Applications

Nonlinear Active Vibration Suppression in Aeroelasticity Nonlinear vibration absorbers for ropeway roller batteries ... Nonlinear Vibration with Control - For Flexible and ... Nonlinear Vibration with Control - For Flexible and ... Vibration control for the nonlinear resonant response of a ... Nonlinear Vibration with Control | SpringerLink Visitors - Linear and Nonlinear Dynamics and Vibrations ... Nonlinear Vibration with Control eBook by David Wagg ... Journal of Vibration Engineering & Technologies | Online ... Nonlinear primary resonance in vibration control of cable ... Nonlinear dissipative devices in structural vibration ... International Conference on Applied Nonlinear Dynamics ... Nonlinear Vibration With Control For Nonlinear Vibration with Control: For Flexible and ... Vibration and Event-Triggered Control for Flexible ... Nonlinear optimal-based vibration control for systems with ... Journal of Vibration and Control: SAGE Journals Bing: Nonlinear Vibration With Control For Nonlinear Vibration of Continuous Systems 2020 | Hindawi

Nonlinear Active Vibration Suppression in Aeroelasticity

In order to properly design complex structures for high speed mechanical applications, it is important to investigate the nonlinear dynamics and vibration of these basic continuous systems. This Special Issue focuses on sharing recent advances and developments in the theories, algorithms, experiments, and applications that involve the nonlinear ...

Nonlinear vibration absorbers for ropeway roller batteries ...

Nonlinear vibration control of a horizontally supported Jeffcott-rotor system. M Eissa, NA Saeed. Journal of Vibration and Control 24 (24), 5898-5921, 2018. 12: 2018: On the nonlinear oscillations of a horizontally supported Jeffcott rotor with a nonlinear restoring force. NA Saeed, HA El-Gohary.

Nonlinear Vibration with Control - For Flexible and ...

This paper studies the nonlinear primary resonance in the vibration control of cable-stayed beam with time delay feedback. Considering the continuity conditions, the in-plane nonlinear motion equations of the cable-stayed beam are obtained via the Hamilton principle.

Nonlinear Vibration with Control - For Flexible and ...

About this journal. The Journal of Vibration and Control is a peer-reviewed journal of analytical, computational and experimental studies of vibration phenomena and their control. The scope encompasses all linear and nonlinear vibration phenomena and covers topics such as: vibration and control of structures and machinery, signal analysis, aeroelasticity, neural networks, structural control and acoustics, noise and noise control, waves in solids and fluids and shock waves.

Vibration control for the nonlinear resonant response of a ...

Simultaneous Precision Positioning and Vibration Control for on-Orbit Optical Payloads: An Integrated Actuator Development and Analysis Authors (first, second and last of 4) Xiaoqing Sun; ... Response Analysis of Nonlinear Free Vibration of Parallel-Plate MEMS Actuators: An Analytical Approximate Method Authors (first, second and last of 4 ...

Nonlinear Vibration with Control | SpringerLink

It covers the basic principles of nonlinear vibrations that occur in flexible and/or adaptive structures, with an emphasis on engineering analysis and relevant control techniques. Understanding nonlinear vibrations is becoming increasingly important in a range of engineering applications, particularly in the design of flexible structures such as aircraft, satellites, bridges, and sports stadia.

Visitors - Linear and Nonlinear Dynamics and Vibrations ...

Nonlinear Vibration with Control - For Flexible and Adaptive Structures | David Wagg | Springer. Solid Mechanics and Its Applications. Revises and extends sections on passive control and morphing. Combines nonlinear vibration and control in an integrated manner. Provides extensive coverage of control engineering.

Nonlinear Vibration with Control eBook by David Wagg ...

Wagg and Neild's Nonlinear Vibration with Control is an easy study for the student and a valuable reference for the engineer." (Jon W. Mooney, Noise Control Engineering Journal, Vol. 63 (3), May-June, 2015) "This book covers nonlinear vibrations of elastics structures, beams, plates, shells and cables.

Journal of Vibration Engineering & Technologies | Online ...

In this study, we explore the event-triggered control of a flexible three-dimensional (3D) Euler-Bernoulli beam modeled by partial differential equations (PDEs). A novel event-t

Nonlinear primary resonance in vibration control of cable ...

Nonlinear dynamics, regular and chaotic vibrations, vibration absorption and control, strongly nonlinear vibration absorbers Heat transfer in low-dimensional systems, microscopic foundations of Fourier law Thermodynamics and mechanical properties of granular systems Dynamics of polymer crystals

Nonlinear dissipative devices in structural vibration ...

Potentially, the receptance method can be used to control the nonlinear vibration of aircraft by using in-flight test results. A new frequency-domain method for feedback linearisation is proposed by making use of a property of the receptance

matrix, i.e. that it is invariant under the Hilbert transform.

International Conference on Applied Nonlinear Dynamics ...

ICANDVC2021 is aimed to provide a high-quality academic exchange platform for the most recent advances in the areas related to nonlinear dynamics, vibration analysis and control, control systems theory and methods, robotics, and their various engineering applications.

Nonlinear Vibration With Control For

The applications of the nonlinear energy sink in offshore engineering mainly include two aspects: first, to reduce the torsional vibration of the drill-string system that is generated by the friction between the drill bit and the rock surface or between the drill string and the borehole well, and thus, to enhance the stability of the drill-string system; and second, to control the vibration of the pipe conveying fluid with variable fluid velocity under external excitations.

Nonlinear Vibration with Control: For Flexible and ...

It covers the basic principles of nonlinear vibrations that occur in flexible and/or adaptive structures, with an emphasis on engineering analysis and relevant control techniques. Understanding nonlinear vibrations is becoming increasingly important in a range of engineering applications, particularly in the design of flexible structures such as aircraft, satellites, bridges, and sports stadia.

Vibration and Event-Triggered Control for Flexible ...

Abstract This work investigates a nonlinear passive control strategy designed to reduce the peak accelerations in ropeway roller batteries systems by deploying an array of nonlinearly visco-elastic...

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

Vibration control for the nonlinear resonant response of a piezoelectric elastic beam via time-delayed feedback. Jian Peng 1,2,4, Gai Zhang 1,3, Mingjiao Xiang 1, Hongxin Sun 1,4, Xiuyong Wang 1 and Xianzhong Xie 1,2. Published 2 August 2019
• © 2019 IOP Publishing Ltd Smart Materials and Structures, Volume 28, Number 9

Journal of Vibration and Control: SAGE Journals

The main contribution of this research is the development and numerical verification of three nonlinear optimal-based vibration control concepts (the implementation of one-step optimal control, quasi-optimal control, and the optimal-based modified ground-hook law) that produce MR damper required current (not required force) as their output (thus force tracking algorithm that results in control inaccuracy is entirely omitted here), and that may be directly applicable for online and real-time ...

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