

Piezoelectric Based Vibration Control From Macro To Micronano Scale Systems 2010 Edition By Jalili Nader 2009 Hardcover

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Introduction. Piezoelectric-Based Vibration Control: From Macro to Micro/Nano Scale Systems covers a comprehensive understanding and physical principles in piezoelectric materials and structures used in a variety of vibration-control systems. With its self-contained and single-source style, this book provides a widespread spectrum of discussions ranging from fundamental concepts of mechanical vibration analysis and control to piezoelectric actuators and sensors.

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Piezoelectric materials have been proposed as a means of decreasing engine blade vibration either through a passive damping scheme, or as part of an active vibration control system. For polymer matrix fiber composite blades, the piezoelectric elements could be embedded within the blade material, protecting the brittle piezoceramic material from the airflow and from debris.

~~Active Piezoelectric Vibration Control of Subscale ...~~

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In this paper, to suppress the vibration from pitch and yaw directions, a multidimensional system identification and active vibration control system on the basis of piezoelectric actuators is established. The remainder of this article is organized as follows.

~~Multidimensional System Identification and Active ...~~

□Piezoelectric-Based Vibration-control Systems: Applications in Micro/Nano Sensors and Actuators□ covers: Fundamental concepts in smart (active) materials including piezoelectric and piezoceramics, magnetostrictive, shape-memory materials, and electro/magneto-rheological fluids; Physical principles and constitutive models of piezoelectric materials; Piezoelectric sensors and actuators; Fundamental concepts in mechanical vibration analysis and control with emphasis on distributed ...

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This article presents optimal vibration control of a thin-walled composite beam by using the fuzzy optimization strategy based on the particle swarm optimization algorithm. The optimization of the size and location of the conventionally collocated piezoelectric actuators and sensors, and optimization of the controller parameters are performed separately.

~~Optimal vibration control of smart composite beams with ...~~

Vibration Control in Cricket Bats using Piezoelectric-based Smart Materials A thesis submitted in fulfilment of the requirements for the degree of Doctor of Philosophy. Jia Long Cao. MEng (RMIT University) School of Aerospace, Mechanical and Manufacture Engineering RMIT University Melbourne, Australia. August 2006

~~Vibration Control in Cricket Bats using Piezoelectric ...~~

control is based on the impulsive excitation of a supplementary resonant RLC□series circuit suitable to control the synchronized charge of the piezoelectric actuator. In perspective of optimizing the dynamic performance of the circuit, an innovative feedback technique has been investigated by

~~SISO Piezo Based Circuit Development for Active Structural ...~~

The piezoelectric materials have been used to (i) actively control the vibrations of Large space structures (such as spaces trusses), (ii) actively suppress the vibrations of civil structures, (iii) alleviate helicopter rotor blade caused vibrations, (iv) actively control the aeroelastic flutter in airplanes, (v) actively suppressing tail buffeting, (vi) control the separation of flows, and (vii) actively control the vibrations in hard disk drives.

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