

Applied Vibration Suppression Using Piezoelectric Materials

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Applied Vibration Suppression Using Piezoelectric ...

Abstract. Unwanted vibrations are a common occurrence within structures and systems, and often pose a threat to their integrity or functionality. This research aims to seek a solution to attenuate the vibrations experienced within a link of a system using active vibration control with piezoelectric patches as actuators, whilst avoiding the use of large and expensive equipment which would contravene with the common objective of maintaining the smallest mass possible of the system.

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Active vibration control using piezoelectric actuators ...

The vibration suppression performances of the controller are 5.7 dB and 10.8 dB for the simply-supported plate with/without the mass subject to a chirp sine excitation, respectively. For the experiment of the curved panel subject to a sinusoidal excitation, the vibration attenuation of the control scheme is 5.0 dB even the control circuit is subject to some noise generated by electrical and magnetic interferences.

Structural Vibration Suppression Using the Piezoelectric ...

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Applied Vibration Suppression Using Piezoelectric ...

Abstract. The active elasticity control of a piezoelectric actuators connected to the negative capacitance (NC) circuits represents an efficient tool for the suppression of vibrations in mechanical structures. In this paper, the authors study theoretically and experimentally the vibration transmission through a piezoelectric bimorph connected to the NC circuit.

Vibration control using piezoelectric bimorphs connected ...

Active vibration control is one of the best approaches to suppress vibration. One of the methods of active control is using piezoelectrics as actuators [1]. It is worth noting that piezoelectric is the coupling of structural and electric Computer Aided Optimum Design in Engineering X 199 WI Tr a nscti o The Built Environment, Vol 91, © 2007 WIT Press www.witpress.com, ISSN 1743-3509 (on-line) doi:10.2495/OP070191 manipulator using a piezoelectric actuator

Active vibration suppression of a flexible link ...

Therefore, active vibration control for space flexible structures is an important concern. Piezoelectric elements serve as effective sensors and actuators for vibration suppression of flexible structures [3] . To design piezoelectric smart structures for active vibration control, structural dynamics and control theory need to be considered [4] .

Vibration suppression of a flexible piezoelectric beam ...

In this study, we applied a hybrid absorber with piezoelectric actuators and an LR circuit to suppress the chatter vibration of a boring bar. To provide sufficient force and stiffness, stack-type piezoelectric actuators were devised in a boring bar, and the equal peaks method was used for the optimization of the LR parameters referring the real part of the compliance.

Vibration suppression of boring bar by piezoelectric ...

Abstract: Unwanted vibrations are a common occurrence within structures and systems, and often pose a threat to their integrity or functionality. This research aims to seek a solution to attenuate the vibrations experienced within a link of a system using active vibration control with piezoelectric patches as actuators, whilst avoiding the use of large and expensive equipment which would contravene with the common objective of maintaining the smallest mass possible of the system.

Active vibration control using piezoelectric actuators ...

suppression using piezoelectric materials vibration suppression of a spacecraft flexible appendage using using piezoelectric material to actively control vibration of flexible structures positive position feedback ppf goh and caughey 1985 fanson and caughey 1990 agrawal and bang 1994 was applied by feeding the structural position coordinate

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Using adaptive control algorithm, Thomas et al. discussed the active vibration control of smart structures using adaptive control method and piezoelectric actuators, experiment and simulation...

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