

ACTIVE CONTROL OF FLEXIBLE STRUCTURES%0A

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Active Control of Flexible Structures deals with vibration control for large-scale flexible structures which are, or may be, subject to a broadband primary vibration field. The authors present a complete rationale for solving problems of vibration, from experimental structural characterization to controller implementation. In reaching this objective they address the following steps:

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Active Control of Flexible Structures: From Modeling to Implementation (Advances in Industrial Control) by Albano Cavallo (2010-08-02) Hardcover 1644

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In the context of civil structural engineering, the idea of using automatic control systems to reduce the vibration induced in structures such as buildings, bridges, towers, and others by loads

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This major work is the first to treat the active control of both sound and vibration in a unified way. It outlines the fundamental concepts, explains how a reliable and stable system can be designed and implemented, and details the pitfalls.

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Active Control of Flexible Structures deals with vibration control for flexible structures which are or may be the subject of a broadband primary vibration field. The authors present a complete rationale for solving the problem, from experimental structural characterization to controller implementation. In reaching this objective the following steps are addressed.

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Longer and more flexible wings are considered crucial to

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the design of future long-range, fuel-efficient aircraft. Because these wings are more susceptible to flutter and the stress of atmospheric turbulence, NASA is investigating key technologies for active flutter suppression and gust-load alleviation.

[Active Control of Flexible Structures: From Modeling To ...](#)

Active Control of Flexible Structures: From Modeling to Implementation (Advances in Industrial Control) [Alberto Cavallo, Giuseppe de Maria, Ciro Natale, Salvatore Pirozzi] on Amazon.com. *FREE* shipping on qualifying offers. A complete solution for problems of vibration control in structures that may be subject to a broadband primary vibration

[Optimal Active Control of Flexible Structures Applying ...](#)

Optimal Active Control of Flexible Structures Applying Piezoelectric Actuators by Neda Darivandi Shoushtari A thesis presented to the University of Waterloo in fulfillment of the thesis requirement for the degree of Doctor of Philosophy in Mechanical Engineering Waterloo, Ontario, Canada, 2013 c Neda Darivandi Shoushtari 2013. I hereby declare that I am the sole author of this thesis. This is **Active robust vibration control of flexible structures ...**

In recent years, active control methods have been developed to suppress structural vibration and improve the performance of these flexible space structures. In this paper, we developed an approach for active vibration control of flexible structures with integrated piezoelectric actuators using control theory. First, dynamic models for a flexible circular plate with integrated piezoelectric

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Active Control of Structures: Discusses new types of vibration control methods and devices, including the newly developed reduced-order physical modelling method for structural control; Introduces triple high-rise buildings connected by active control bridges as devised by Professor Seto;

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flexible structure using a single piezo-electric active structural member. The new control strategy generates its control forces by manipulating only the modal position signals of the structure to provide a damping action to

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Active Vibration Control of Flexible Structures Using ...

Abstract: Considerable attentions have been devoted recently to active vibration control using intelligent materials as sensors/actuators. This paper presents results on active control schemes for vibration suppression of flexible cantilever beam with bonded piezoelectric sensors and actuators.