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Using the modeling developments and derivations in the preceding chapters, a comprehensive treatment is provided for active vibration absorption as well as vibration control using piezoelectric...

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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

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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

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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

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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

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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,

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and optimization of the controller parameters are performed separately.

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requirements for the degree of Doctor  
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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

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performance of the circuit, an  
innovative feedback technique has  
been investigated by

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The piezoelectric materials have been  
used to (i) actively control the

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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

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separation of flows, and (vii) actively control the vibrations in hard disk drives.

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