

A Multi-Mode Blade Damping Control Using Shunted Piezoelectric Transducers with Active Feedback Structure



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A MULTI-MODE BLADE DAMPING CONTROL USING SHUNTED PIEZOELECTRIC TRANSDUCERS WITH ACTIVE FEEDBACK STRUCTURE

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BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 34 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. The Structural Dynamics and Mechanics branch (RXS) is developing smart adaptive structures to improve fan blade damping at resonances using piezoelectric (PE) transducers. In this presentation, only one shunted PE transducer was used to demonstrate active control of multi-mode blade resonance damping on a titanium alloy (Ti-6Al-4V) flat plate model, regardless of bending, torsion, and 2-stripe modes. This work would have a significant impact on the conventional passive shunt damping world because the standard feedback control design tools can now be used to design and implement electric shunt for vibration control. In other words, the passive shunt circuit components using massive inductors and resistors for multi-mode resonance control can be replaced with digital codes. Furthermore, this active approach with multi patches can simultaneously control several modes in the engine operating range. Dr. Benjamin Choi presented the analytical and experimental results from this work at the Propulsion-Safety and Affordable Readiness (P-SAR) Conference in March, 2009. This item ships from La Vergne, TN. Paperback.

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