



## Alleviation of Buffet-Induced Vibration Using Piezoelectric Actuators

By Shawn D. Morgenstern

Biblioscholar Nov 2012, 2012. Taschenbuch. Book Condition: Neu. 246x189x7 mm. This item is printed on demand - Print on Demand Neuware - Buffet-induced vibrations have been problematic for aircraft for many years, and can have a disastrous impact when allowed to continue to the point of structural failure. Early attempts at combating harmful vibrations included relatively passive methods such as structural enhancements and leading edge fences used to minimize the strength of vortices. However, modern techniques have shown greater promise. Synthetic jet actuators have demonstrated the capability to significantly decrease vibrational strength by altering the airflow impinging upon a structure. Piezoelectric actuators have also shown great potential. Strategically mounted to the surface of the affected structure, they impart directional strain to reduce the negative effects associated with the strain energy of specific mode shapes. The F-16 ventral fin is representative of an aircraft structure prone to failure when subjected to the buffet field from a Low Altitude Navigation and Targeting Infrared for Night (LANTIRN) pod. 120 pp. Englisch.



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