



Grigoris K. Karaiskos

Active vibration control of structures

Experimental verification using jet pulses



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In the present study it is experimentally examined and verified the effectiveness of fluid jet pulses to actively control the vibrations of flexible structures The operating principles and capabilities of the proposed control system are understood by applying them in a simplified small scaled laboratory structure which contains the basic dynamics of real structures The efficiency of the jet pulses as an active control system for a wide range of base excitations is experimentally verified All the experimental studies demonstrated the relation governing the reduction of vibration levels with the jet air pressure The achieved reduction in the intensity of the oscillations exceeds 50% of the oscillation without the effect of the control system The successful studies performed on the simplified laboratory structure are promising for active vibration control using jet pulses of more complicated structures such as civil engineering metallic structures lightweight aerospace structures robotic arms axially moving systems cable stayed structures oil platforms and any kind of coastal structures that are prone to vibrations coming from ambient and operational loads **Vibration and Control of Mechanical Systems** Chin An Tan, Lawrence A. Bergman,1993 These papers presented at the 14th Biennial ASME Conference on Vibration and Noise held in Albuquerque New Mexico September 1993 represent a cross section of the many directions that researchers are currently pursuing in characterizing and controlling the response of distributed parameter systems NASA SP. ,1992 **Seismic, Shock, and Vibration Isolation, 1989** Howard Chung, Takafumi Fujita,1989 **International Aerospace Abstracts** ,1996 *Space Station Systems* ,1989 **The Finding Guide to AIAA Meeting Papers** American Institute of Aeronautics and Astronautics. Technical Information Service,1996 *Technical Report* ,1987 **AIAA Journal** American Institute of Aeronautics and Astronautics,2007 **Index to Theses with Abstracts Accepted for Higher Degrees by the Universities of Great Britain and Ireland and the Council for National Academic Awards** ,2000 **Aeronautical Engineering** ,1992 A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace reports STAR and International aerospace abstracts IAA **Government Reports Announcements & Index** ,1991-07 **Aeronautical Engineering: A Cumulative Index to a Continuing Bibliography (supplement 261)** ,1991 **Government Reports Annual Index** ,1993 **Technology for Large Space Systems: A Bibliography with Indexes (supplement 21)** ,1988 **Aeronautical Engineering: A Cumulative Index to the 1984 Issues of the Continuing Bibliography** ,1985 *Metals Abstracts* ,1989 **Dissertation Abstracts International** ,2007 **Large Space Structures & Systems in the Space Station Era** ,1990

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