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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.

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Hence, active control allows the use of more conventional engineering materials and the construction of larger and more ambitious structures. In a typical application the two main effects to be controlled are vibrations, due mainly to on-board disturbances, such as torque wheels, and quasi-static disturbances, caused by effects such as temperature gradients or initial lack-of-fit of structural members.

~~Active control of flexible structures using inertial stick ...~~

ICAS 2000 CONGRESS 493.1 ACTIVE CONTROL OF FLEXIBLE STRUCTURES BASED ON FUZZY LOGIC Kelly Cohen, Tanchum Weller, and Joseph Z. Ben-Asher Department of Aerospace Engineering, Technion | I.I.T ...

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The potential applications of the active control of flexible structures subjected to rigid body displacements are numerous and varied. For example, in the field of robotics, fast rotations of articulated arms cause vibratory behavior of the structure incompatible with the precision requirements at the end of arm obtained by classical controllers.

~~Adaptive active control of flexible structures subjected ...~~

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