



Mechatronic Control of Distributed Noise and Vibration: A Lyapunov Approach

Christopher D. Rahn

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Vibration and noise reduce the perceived quality, productivity, and efficiency of many and limit production speeds electromechanical systems. Vibration can cause defects during manufacturing and produce premature failure of finished products due to fatigue. Potential contact with a vibrating system or hearing damage from a noisy machine can produce a dangerous, unhealthy, and uncomfortable operating environment. Recent advances in computer technology have allowed the development of sophisticated electromechanical systems for the control of vibration and noise. The demanding specifications of many modern systems require higher performance than possible with the traditional, purely mechanical approaches of increasing system stiffness or damping. Mechatronic systems that integrate computer software and hardware with electromechanical sensors and actuators to control complex mechanical systems have been demonstrated to provide outstanding vibration and noise reduction. The current trends toward higher speed computation and lower cost, higher performance sensors and actuators indicate the continuing possibilities for this control approach in future applications.

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