

# Design Optimization And Vibration Control Of Adaptive Structures Modeling Of Smart Dampers And Optimization In Semiactive Structures

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Reduction of structural vibrations is of major interest in mechanical engineering for lowering sound emission of vibrating structures, improving accuracy of machines, and increasing structure durability. Besides optimization of the mechanical design or various types of passive damping treatments, active structural vibration control concepts are efficient means to reduce unwanted vibrations.

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Young-Jin Cha, Yeesock Kim, Comparative Study on Multi-Objective Genetic Algorithms for Seismic Response Controls of Structures, Design Optimization of Active and Passive

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The state-space model of the structural system defined in is given by where and are the controlled output for the performance evaluation and the measurement vector obtained with sensors installed on the structural system. The variable damping coefficient of the th semiactive damper is varied in a range given as follows: where and are the maximum and minimum values of the variable damping ...

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