

Model predictive vibration control: efficient constrained MPC vibration control for lightly damped mechanical structures

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Abstrak

Model predictive vibration control provides insight into the predictive control of lightly damped vibrating structures by exploring computationally efficient algorithms which are capable of low frequency vibration control with guaranteed stability and constraint feasibility. In addition to a theoretical primer on active vibration damping and model predictive control, this book provides a guide through the necessary steps in understanding the founding ideas of predictive control applied in AVC such as, the implementation of computationally efficient algorithms, control strategies in simulation and experiment and typical hardware requirements for piezoceramics actuated smart structures.