



A. Martowicz, M. Rosiek, T. Uhl

An Application of Electro-Mechanical Impedance for Damage Detection in Mechanical Systems

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The paper presents the results of coupled FE simulations applied for electromechanical impedance-based SHM method of damage detection in mechanical structures. Aluminum plate with bonded piezoelectric transducers was modeled and excited to vibrate at range of high frequencies. Plots of electromechanical impedance were used to conclude about introduced damage.

Ключевые слова:

Содержание.

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