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Vibration Based Health Monitoring for a Thin Aluminum Plate: Experimental Assessment of Several Statistical Time Series Methods

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This work aims at the experimental assessment of a number of statistical time series methods for Structural Health Monitoring (SHM). The main features and operation of the employed non-parametric and parametric methods are briefly reviewed. Their performance is subsequently assessed via laboratory experiments pertaining to damage detection and identification on a thin aluminum plate structure. The results of the study demonstrate the potential and effectiveness of the statistical time series SHM methods.

Ключевые слова:

Содержание.

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