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Damage Detection in a Masonry Arch Bridge Model Using Outlier Analysis

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A vibration-based damage assessment method is applied to a masonry arch bridge experimental model. The vibration tests carried out on the undamaged and damaged states of the structure provide the signals used to assess the structural health state. The features are selected from the transmissibility functions and optimized by means of a genetic algorithm. The damage detection is obtained by employing the technique of outlier analysis for different levels of the damage extent introduced into the bridge model.

Ключевые слова:

Содержание.

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