

عنوان مقاله:

Stacking sequence identification of thin and thick laminated composite plates by vibration analysis and an inverse method

محل انتشار:

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خلاصه مقاله:

In the present paper, a new combined technique consisting of experimental results and numerical solution for determination of stacking sequence of thin and thick orthotropic plates under different boundary conditions is proposed. The proposed technique use vibrational test data, its corresponding numerical solution and optimization method. Stacking sequence of the plates are determined by using an inverse method and a Genetic algorithm and also by linking ABAQUS and MATLAB softwares. The error function is based on the sum of square difference between experimental and numerical data of eigenfrequencies. This method that links ABAQUS and MATLAB softwares to Operators of Genetic optimization algorithm is called in brief AMOG.

کلمات کلیدی:

Inverse Method; Laminated Composites; Stacking Sequence Identification; Optimization

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