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Spectral Finite Element Method for Propagation of Guided Elastic Waves in Wind Turbine Blades for SHM Purposes

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Certain results of numerical simulations obtained by the use of the spectral finite element method in time domain are presented by the authors. They were selected in order to show the effectiveness of the spectral finite element method for investigation of problems associated with propagation of guided elastic waves in a wind turbine laminated composite blade. Results of these simulations were subsequently evaluated in order to detect and localise simulated damage in the form of cracks or delaminations.

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Ключевые слова:

Содержание