



T.H. Ooijevaar, L.L. Warnet, R. Loendersloot, R. Akkerman, A. De Boer

Vibration Based Structural Health Monitoring of a Composite Plate Structure with Multiple Stiffeners

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A vibration based damage identification method is investigated experimentally. The dynamic response of an intact and a locally damaged 16-layer unidirectional carbon fibre PEKK reinforced plate structure with two stiffener sections is considered. A forced-vibration set-up, including a laser vibrometer system, is employed to measure the dynamic behaviour. The feasibility of the two-dimensional Modal Strain Energy Damage Index algorithm to detect and localize impact induced defects is demonstrated.

Ключевые слова:

Содержание.

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