

Gap Estimation of Disbanding Failure Appears in Hybrid Laminate Material by Means of an Eddy Current Evaluation

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Description

The aim of this paper is to estimate the gap of a disbanding failure appears in the hybrid laminate material by means of the eddy current non-destructive evaluation (EC-NDE) method. In order to model and analyse the corresponding problem, a 3D FVM anisotropic numerical model is developed, in which the heterogeneity of the hybrid laminate material is taken into account. To estimate the gap of a disbanding failure, the developed model is hence inversed using the Nelder-Mead simplex algorithm. Both numerical and experimental results are given in this paper related to an experimental sample of the hybrid material.

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