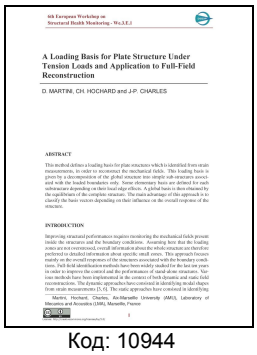

Код: 10944

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A Loading Basis for Plate Structure Under Tension Loads and Application to Full-Field Reconstruction

Дрезден, Германия, 2012 год

7 стр; формат: 23,5 x 16 см; библиографический список: 10 единиц

This method defines a loading basis for plate structures which is identified from strain measurements, in order to reconstruct the mechanical fields. This loading basis is given by a decomposition of the global structure into simple sub-structures associ¬ated with the loaded boundaries only. Some elementary basis are defined for each substructure depending on their local edge effects. A global basis is then ob-tained by the equilibrium of the complete structure. The main advantage of this approach is to classify the basis vectors depending on their influence on the overall response of the structure.

Доклад. 6-я Европейская конференция по мониторингу технического состояния сооружений, 2012. Редакция Кристиана Боллера.

Ключевые слова:

Содержание