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Shape Sensing of Three-Dimensional Frame Structures Using the Inverse Finite Element Method

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An inverse finite element method is presented for beam and frame structures. The method is aimed at the reconstruction of the complete displacement field starting from in situ measurements of surface strains. Several numerical examples are presented for statically loaded beam and frame structures which demonstrate the predictive capability and accuracy of the approach.

Ключевые слова:

Содержание.

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