

Modeling Revolution Shell Structures by MATLAB Programming- Axisymmetric and Nonaxisymmetric Shells

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Abstract : The objective of this work is setting numerically operational finite element CAXI_L for the axisymmetric and nonaxisymmetric shells. This element is based on the Reissner-Mindlin theory and mixed model formulation. The MATLAB language is used for the programming. In order to test the elaborated program, some applications are carried out.

Keywords : axisymmetric shells, nonaxisymmetric behaviour, finite element, MATLAB programming

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