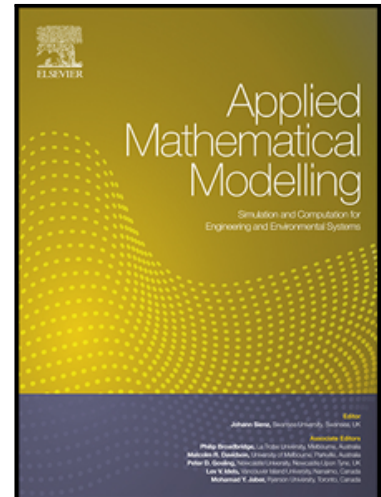


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A two-variable first-order shear deformation theory considering in-plane rotation for bending, buckling and free vibration analyses of isotropic plates

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Highlights

- A two-variable first-order plate theory considering in-plane rotation is presented.
- Analytical solutions for various boundary conditions are obtained in bending, buckling and free vibration analyses.
- The in-plane rotation occurs close to the edges, so it should be considered to correctly predict the responses of plates.

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