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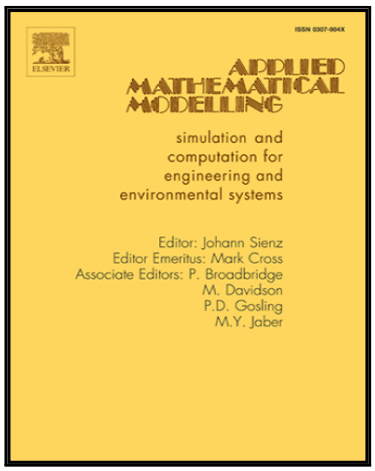

Vibration analysis of a thermo-mechanically coupled large-scale welded wall based on an equivalent model

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Highlights

- An analytical equivalent method is presented for the analysis of the welded wall.
- Nonlinear strain field resulting from mid-plane stretching is considered.
- The strain field and temperature field are coupled in this research.
- Effects of structure parameters on the nonlinear behavior are discussed.

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