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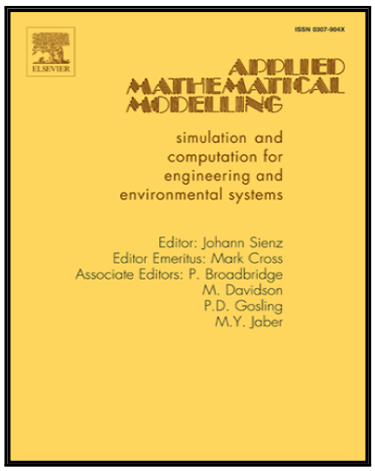

Non-linearly parametric resonances of an axially moving viscoelastic sandwich beam with time-dependent velocity

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Highlights

- The effects of axially moving and structural damping are considered comprehensively.
- The method of Galerkin truncation and multiple scales are applied simultaneously.
- The effects of parameters on response curves and unstable regions are discussed.
- The analytical solutions are compared with numerical solutions.

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