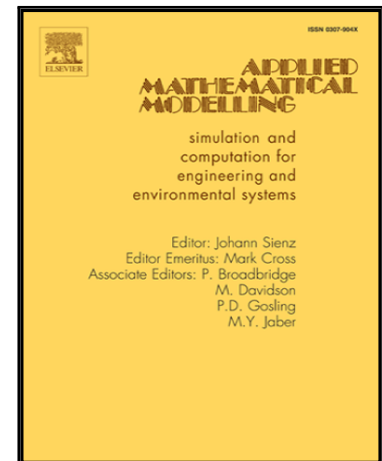


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Non-linear forced vibration analysis of nanobeams subjected to moving concentrated load resting on a viscoelastic foundation considering thermal and surface effects

Majid Ghadiri , Ali Rajabpour , Amir Akbarshahi

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Highlights

- Non-linear vibration of nanobeam considering thermal and surface effects is investigated.
- The nanobeam resting on a viscoelastic foundation is subjected to moving concentrated load.
- The Eringen's nonlocal and the Euler-Bernoulli theories are applied.
- The Galerkin and the Multiple Scales methods are employed to solve the problem.
- The influences of the various parameters on the jump phenomenon are studied.

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