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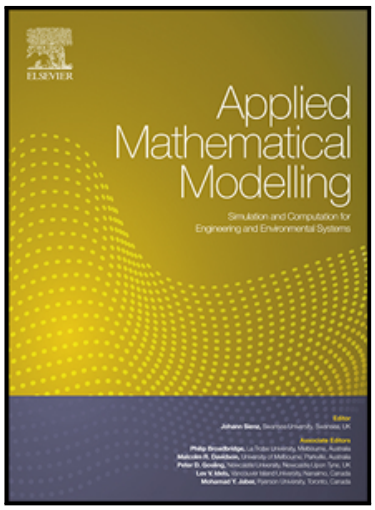

Nonlinear analysis of the micro/nanotube conveying fluid based on second strain gradient theory

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Highlights

- The governing equations are derived based on the second strain gradient theory.
- The effect of the second gradient of strain on the system stiffness is shown.
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- The hardening behavior in nonlinear stability analysis is investigated.
- The resonance and stability of the response in forced vibration is studied.

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