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Nonlinear secondary resonance of nanobeams under subharmonic and superharmonic excitations including surface free energy effects

Ali Sarafraz, Saeid Sahmani, Mohammad Mohammadi Aghdam

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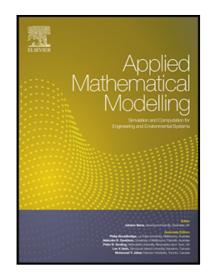
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Highlights

- Size-dependent nonlinear hard oscillation of nanobeams
- Surface free energy effects on the nonlinear secondary resonance of nanobeam with various end supports
- Size-dependent frequency-response of a nanobeam for the both of subharmonic and superharmonic excitations
- Size-dependent amplitude-response of a nanobeam for the both of subharmonic and superharmonic excitations

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