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The geometrically nonlinear dynamic responses of simply supported beams under moving loads

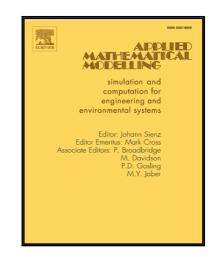
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Highlights

- The load-structure interaction model with consideration of the nonlinear effect is created.
- The effects of key parameters on the nonlinear vibration are investigated.
- A series of comparison are performed and the investigations demonstrate good reliability
- The dynamic design of beams will be improved by the nonlinear analysis and results.



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