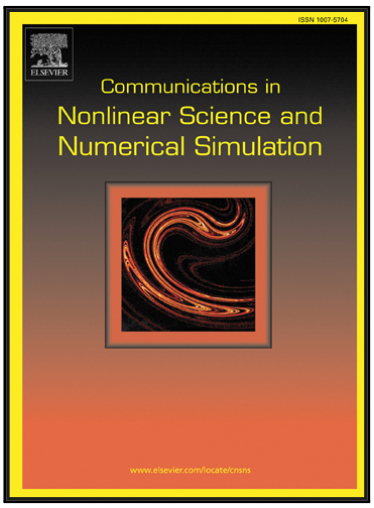


# A parametric study of the nonlinear dynamics and sensitivity of a beam-rigid body microgyroscope

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**Highlights**

- Nonlinear dynamics of an electrically actuated gyroscope are studied.
- Frequency- and force-response curves are computed.
- Unstable branches of the response are characterized.
- The sensitivity curves are obtained.
- Larger sensitivity and bandwidth are obtained through exploiting nonlinearity.