



## Highlights

- Energy harvesting and sensing under quasi-static excitations are possible using controlled instabilities of buckled elements.
- Spacing between buckling-modes transitions cannot be controlled using a uniform-cross section single beam.
- A solution is to adopt a non-uniform, continuous or piecewise continuous, cross-section.
- Spacing between snap-through transitions can be controlled by tuning the shape and the geometry dimensions of the beam.

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