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A vari-stiffness nonlinear isolator with magnetic effects: Theoretical modeling and experimental verification

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Highlights

- A novel vari-stiffness nonlinear isolator is designed, modeled, and tested.
- The nonlinear stiffness can be adjusted and optimized with adjustable devices.
- Repulsive force acts as a softening spring to increase the isolation bandwidth.
- Experimental results validate the excellent nonlinear isolation performance.

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