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A new Hysteretic Nonlinear Energy Sink (HNES)

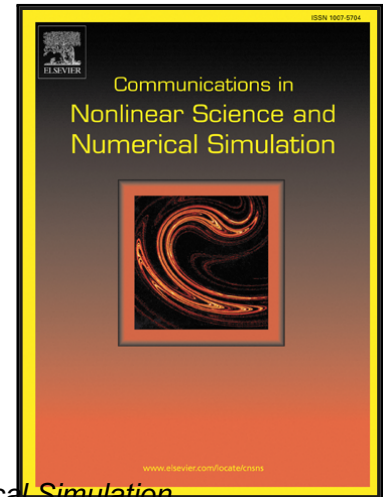
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Highlights

- A new Hysteretic Nonlinear Energy Sink (HNES) in shock mitigation is proposed
- HNES performance is enhanced when linear spring stiffness takes on negative values
- Hysteresis plays a dominant role in the dissipation of impulsive energy
- Remarkable results are achieved for a wide range of initial input energies

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