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Irreversible passive energy transfer of an immersed beam subjected to a sinusoidal flow via local nonlinear attachment

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Highlights

- The nonlinear behaviors of a beam under a sinusoidal fluid flow with a nonlinear absorber are studied.
- The NES is located at various positions on the pipe conveying fluid.
- Numerical and analytical approaches are adopted to analyze the system.
- Middle of the beam is the best position for connecting the NES to the beam.
- Approaching the NES to the beam supports lowers the occurrence probability of the SMR, DRC and WMR.

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