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Multi-low-frequency flexural wave attenuation in Euler–Bernoulli beams using local resonators containing negative-stiffness mechanisms

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Highlights

- Local resonators containing negative-stiffness mechanisms are proposed.
- The resonant frequency of the proposed resonator can be tuned to desired low values.
- Multiple low-frequency band gaps are opened by the proposed resonators.
- Seamlessly blending attenuation band and complex band presents a wide band gap.

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