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Stochastic resonance in an asymmetric bistable system driven by multiplicative and additive trichotomous noises

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Highlights

- SR and stochastic anti-resonance exist in this system.
- The asymmetry of the potential can weaken the phenomenon of SR.
- It is more sensitive to control the SR by adjusting the additive noise intensity.
- A large signal amplitude leads to promoting the SR phenomenon.
- A large signal frequency suppresses the occurrence of SR.

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