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Response analysis of the archetypal smooth and discontinuous oscillator for vibration energy harvesting

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*Highlights (for review)

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(i) The archetypal smooth and discontinuous oscillator considered the gravity is presented for the electromagnetic vibration energy harvesting.

(ii) The analytical solutions of random responses are obtained and reveal interesting dynamics related to the stationary and transient properties.

(iii) The condition for the occurrence of stochastic resonance is defined conventionally by the Kramers rate.

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