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The numerical analysis shows that the fractionally damped energy harvesting system exhibits chaos, periodic motion, chaos and periodic motion in turn when the fractional order changes from 0.2 to 1.5. The period doubling route to chaos and the inverse period doubling route from chaos to periodic motion can be clearly observed.

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the fractionally damped energy harvesting system exhibits chaos, and periodic motion, as the fractional order changes. The observed bifurcations strongly influence the power output. 1 Introduction A recent concept of frequency broadband energy harvesting systems consists of using nonlinear

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Abstract Vibration phenomena of the fractionally damped systems have attracted increasing attentions in recent years. In this paper, dynamics of the fractionally damped Duffing equation is examined. The fractionally damped Duffing equation is transformed into a set of fractional integral equations solved by a predictor – corrector method. The effect of fractional order of damping on the ...

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Abstract: The effect of nonsinusoidal forces on the onset of horseshoe chaos is studied both analytically and numerically in the fractionally damped Duffing-vander Pol (DVP) oscillator. The nonsinusoidal peri-odic forces considered are square-wave, symmetric saw-tooth wave, and asymmetric saw-tooth wave. An

Horseshoe Dynamics in Fractionally Damped Duffing-Vander ...

Before a solution to the linear fractionally damped oscillator equation is constructed it will be useful to review the Laplace transform method of solution for the linearly damped oscillator equation The ... " Chaotic and pseudochaotic attractors of perturbed fractional oscillator, " Chaos, vol. 16, no. 1, Article ID 013102.

Linear Fractionally Damped Oscillator

the fractionally damped energy harvesting system exhibits chaos, and periodic motion, as the fractional order changes. The observed bifurcations strongly influence the power output. 1 Introduction A recent concept of frequency broadband energy harvesting systems consists of using nonlinear phenomena (such as