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the fractionally damped energy harvesting system exhibits chaos, and periodic motion, as the fractional order changes. The observed bifurcations strongly in fl uence 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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