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Characteristics Of The Rotor/bearing/seal System Were Analyzed With Bifurcation Diagrams, Time-history Diagrams, Trajectory Diagrams, Poincare Maps And Frequency Spectrums. The Numerical Analysis Indicates That The Seal Force And The Oil-film Force Influence The Nonlinear Dynamic Characteristics May 23th, 2024 Bounded Stability Of Nonlinear Stochastic Systems System With Non-vanishing Noise At A Target Point, Which The Conventional Stochastic Stability Concepts Do Not Deal With. Key Words: Stochastic Stability, Bounded Stability, Nonlinear Stochastic Systems. 1. Introduction Stochastic Systems Are Dynamical Systems Having Probabilistic Uncertainties, And Thus Are Utilized For Modeling The Actual ... Apr 13th, 2024 Nonlinear Ion Trap Stability Analysis Nonlinear, Dynamical Systems. Other Chaos-related Geometric Objects, Such As The Boundary Between Periodic And Chaotic Motions In Phase Space, May Also Have Fractal Properties. A Nonlinear Chaotic System, The Parametrically Kicked Nonlinear Oscillator, May Be Realized In The Dynamics Of A Trapped, Laser-cooled Ion, Interacting With A Sequence Of Jan 16th, 2024.

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Definition 2. An Equilibrium Point x_0 of A Consistent MDI Is Stable In The Sense Of Lyapunov If, For Each $\epsilon > 0$, There Exists A $\delta > 0$ Such That Every Solution $x(t)$... Jun 1th, 2024.

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Transverse Dynamics And Regions Of Stability For Nonlinear ...Function Verifying Maximal Regions Of Orbital Stability Via Iterated Of Sum-of-squares Programs. The Construction Of The Transverse Dynamics Is Novel, And Valid For A Broad Class Of Nonlinear Hybrid Systems. Keywords: Veri Cation, Stability Analysis, Periodic Motion
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