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Stability of Nonlinear Systems - Department of EE

The behavior of linear or nonlinear dynamic systems depends on different parameters (identifiable or free) that are involved in their definition. The stability analysis of such dynamical systems is realized by using a domain of selected free parameters. In this paper, we discuss specific theorems that concern the stability of linear dy-

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Quasi-stability regions of nonlinear dynamical systems: optimal estimations Abstract: In this paper, we develop an effective scheme to estimate stability regions by using an energy function that is a generalization of the Lyapunov functions. It is shown that the

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numerical test examples show that the newly constructed methods are more efficient as compared with the existing ...

Stability Regions of Nonlinear Dynamical Systems ...

Optimal schemes for estimating stability regions of general nonlinear dynamical systems are also covered, and finally the authors describe and explain how the theory is applied in applications including direct methods for power system transient stability analysis, nonlinear optimisation for finding a set of high-quality optimal solutions, stabilisation of

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nonlinear systems, ecosystem dynamics, and immunisation problems.

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Stability regions of nonlinear autonomous dynamical systems. Abstract: A topological and dynamical characterization of the stability boundaries for a fairly large class of nonlinear autonomous dynamic systems is presented. The stability boundary of a stable equilibrium point is shown to consist of the stable manifolds of all the equilibrium points (and/or closed orbits) on the stability boundary.

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Stability Control of Linear and Nonlinear Dynamic Systems

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1. Introduction Part I. Theory: 2. Stability, limit sets and stability regions 3. Energy function theory 4. Stability regions of continuous dynamical systems 5. Stability regions of attracting sets of complex nonlinear dynamical systems 6. Quasi-stability regions of continuous dynamical systems - theory 7. Stability regions of constrained dynamical systems 8.

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