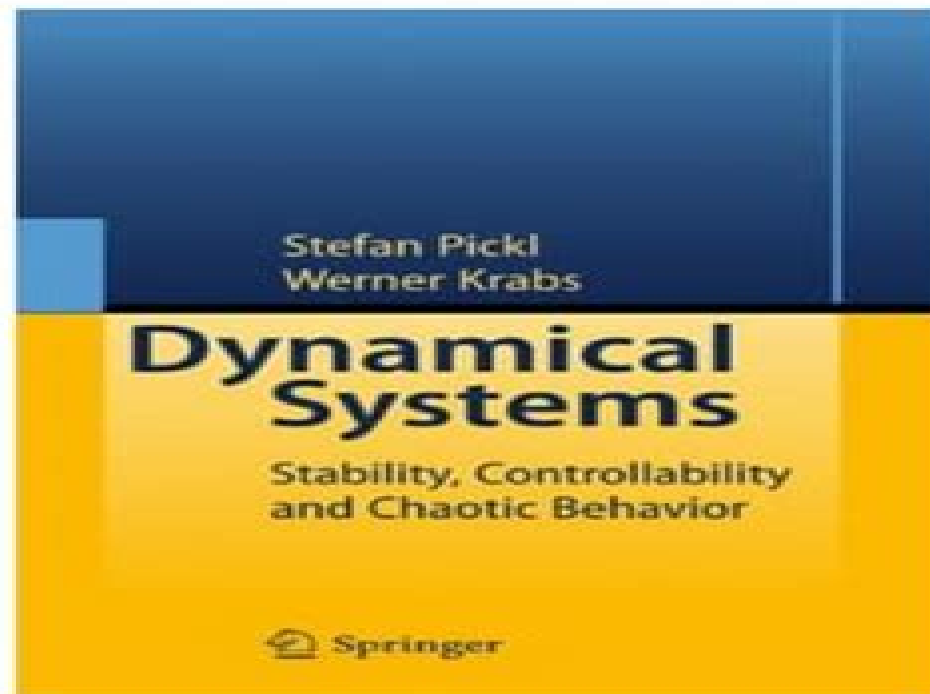


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*Controllability of Dynamic Systems* Ara S. Avetisyan,Asatur Zh. Khurshudyan,2018-04-03 The book is about the possibilities of involvement of the well known Green s function method in exact or approximate controllability analysis for dynamic systems Due to existing extensions of the Green s function notion to nonlinear systems the approach developed here is valid for systems with both linear and nonlinear dynamics The book offers a number of particular examples covering specific issues that make the controllability analysis sophisticated such as coordinate dependent characteristics point sources unbounded domains higher dimensions and specific nonlinearities It also offers extensive numerical analysis which reveals both advantages and drawbacks of the approach As such the book will be of interest to researchers interested in the theory and practice of control as well as PhD and Master s students

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*Backstepping Control of Nonlinear Dynamical Systems* Sundarapandian Vaidyanathan,Ahmad Taher Azar,2020-08-15 Backstepping Control of Nonlinear Dynamical Systems addresses both the fundamentals of backstepping control and advances in the field The latest techniques explored include active backstepping control adaptive backstepping control fuzzy backstepping control and adaptive fuzzy backstepping control The reference book provides numerous simulations using MATLAB and circuit design These illustrate the main results of theory and applications of backstepping control of nonlinear control systems Backstepping control encompasses varied aspects of mechanical engineering and has many different applications within the field For example the book covers aspects related to robot manipulators aircraft flight control systems power systems mechanical systems biological systems and chaotic systems This multifaceted view of subject areas means that this useful reference resource will be ideal for a large cross section of the mechanical engineering community Details the real world applications of backstepping control Gives an up to date insight into the theory uses and application of backstepping control Bridges the gaps for different fields of engineering including mechanical engineering aeronautical engineering electrical engineering communications engineering robotics and biomedical instrumentation

**Nonlinear Vibration and Instability in Nano/Micro Devices: Principles and Control Strategies** Chun-Hui He,Hamid M. Sedighi,Ji-Huan He ,Dragan Marinkovic,2025-12-01 Recent advancements in nanotechnology have led to a surge of interest in nano and micro devices and systems such as nanotubes nano microstructures and nanofiber fabrication processes This progress has ushered in a new era of miniaturized nanodevices The study of nonlinear vibration and instability represents an exciting frontier in both nanotechnology and nonlinear dynamics highlighting the importance of controlling instability in the design of nano micro devices and systems This Research Topic celebrates the fascinating physical principles that underpin the dynamical properties of these devices and explores the emerging advanced applications in the field Understanding these principles requires multidisciplinary collaboration involving fields such as nanotechnology physics textile engineering material science electro mechanical engineering communication science medical science and mathematics Insights into the physical laws governing the operation of nano micro devices including energy conservation and nanophysics are crucial for developing optimal designs and control strategies thereby promoting advanced applications This Research Topic aims to delve into the

intricate dynamics of nano and micro devices and systems with a particular focus on nonlinear vibration and instability The main objectives include understanding the mathematical and physical principles that govern these phenomena developing optimal control strategies and exploring advanced applications Specific questions to be addressed include How can mathematical models be used to predict and control instability in nano micro devices What are the optimal design parameters for minimizing vibration in these systems How can advanced analytical and numerical methods be employed to solve complex problems in this field To gather further insights into the physics of nano micro devices and systems we welcome articles addressing but not limited to the following themes Mathematical and fractal fractional models for vibration instability in nano micro devices and nanofiber fabrication systems Optimal control of systems governed by nonlinear vibration equations with fractal or fractional derivatives Vibration analysis of carbon nanotubes Investigation into pull in instability of N MEMS systems Study of periodic properties of N MEMS systems Nonlinear vibration in electrospinning or bubble electrospinning processes Vibration analysis of nanofiber reinforced hierarchical concrete Vibration and control mechanisms in 3D printing systems Development of energy harvesting devices and wearable sensors Application of big data machine learning and AI in nonlinear vibration and active control Advances in analytical and numerical methods for addressing these challenges

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