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本书系统介绍了现代非线性系统的基本控制理论,以及这些理论在实际非线性控制系统设计中的应用,并提供分析非线性控制系统的工具。主要内容包括:相平面分析、描述函数分析、反馈线性化、滑模控制以及自适应控制等。

This book presents a new approach to the study of physical nonlinear circuits and advanced computing architectures with memristor devices. Such a unified approach to memristor theory has never been systematically presented in book form. After giving an introduction on memristor-based nonlinear dynamical circuits (e.g., periodic/chaotic oscillators) and their use as basic computing analogue elements, the authors delve into the nonlinear dynamical properties of circuits and systems with memristors and present the flux-charge analysis, a novel method for analyzing the nonlinear dynamics starting from writing Kirchhoff laws and constitutive relations of memristor circuit elements in the flux-charge domain. This analysis method reveals new peculiar and intriguing nonlinear phenomena in memristor circuits, such as the coexistence of different nonlinear dynamical behaviors, extreme multistability and bifurcations without parameters. The book also describes how arrays of memristor-based nonlinear oscillators and locally-coupled neural networks can be applied in the field of analog computing architectures. The book will be of interest to scientists and engineers involved in the conceptual design of physical memristor devices and systems, mathematical and circuit models of physical processes, circuits and networks design, system engineering, or data processing and system analysis.

This book presents a variety of techniques for solving ordinary differential equations analytically and features a wealth of examples. Focusing on the modeling of real-world phenomena, it begins with a basic introduction to differential equations, followed by linear and nonlinear first order equations and a detailed treatment of the second order linear equations. After presenting solution methods for the Laplace transform and power series, it lastly presents systems of equations and offers an introduction to the stability theory. To help readers practice the theory covered, two types of exercises are provided: those that illustrate the general theory, and others designed to expand on the text material. Detailed solutions to all the exercises are included. The book is excellently suited for use as a textbook for an undergraduate class (of all disciplines) in ordinary differential equations.

本书共9章,内容包括:学科领域的发展简史;系统的概念,原理及描述方法;数学基础;线性系统的运动分析,实现理论及其计算机运算和实际工程实现问题分析;系统的稳定性理论;能控性和能观性分析,揭示认识系统和设计系统的可能性;具有现实意义的最小实现和多项式互质分式理论;基于状态空间模型的控制器-估计器的系统设计方法;基于传递函数矩阵多项式分式的系统综合方法。

A comprehensive overview of nonlinear H^∞ control theory for both continuous-time and discrete-time systems, Nonlinear H^∞ -Control, Hamiltonian Systems and Hamilton-Jacobi Equations covers topics as diverse as singular nonlinear H^∞ -control, nonlinear H^∞ -filtering, mixed H_2/H^∞ -nonlinear control and filtering, nonlinear H^∞ -almost-disturbance-decoupling, and algorithms for solving the ubiquitous Hamilton-Jacobi-Isaacs equations. The link between the subject and analytical mechanics as well as the theory of partial differential equations is also elegantly summarized in a single chapter. Recent progress in developing computational schemes for solving the Hamilton-Jacobi equation (HJE) has facilitated the application of Hamilton-Jacobi theory in both mechanics and control. As there is currently no efficient systematic analytical or numerical approach for solving them, the biggest bottle-neck to the practical application of the nonlinear equivalent of the H^∞ -control theory has been the difficulty in solving the Hamilton-Jacobi-Isaacs partial differential-equations (or inequalities). In light of this challenge, the author hopes to inspire continuing research and discussion on this topic via examples and simulations, as well as helpful notes and a rich bibliography. Nonlinear H^∞ -Control, Hamiltonian Systems and Hamilton-Jacobi Equations was written for practicing professionals, educators, researchers and graduate students in electrical, computer, mechanical, aeronautical, chemical,

instrumentation, industrial and systems engineering, as well as applied mathematics, economics and management.

This is the first book to focus on the use of nonlinear analysis and synthesis techniques for aircraft control. It is also the first book to address in detail closed-loop control problems for aircraft "on-ground" – i.e. speed and directional control of aircraft before take-off and after touch down. The book will be of interest to engineers, researchers, and students in control engineering, and especially aircraft control.

Dry Clutch Control for Automated Manual Transmission Vehicles analyses the control of a part of the powertrain which has a key role in ride comfort during standing-start and gear-shifting manoeuvres. The mechanical conception of the various elements in the driveline has long since been optimised so this book takes a more holistic system-oriented view of the problem featuring: a comprehensive description of the driveline elements and their operation paying particular attention to the clutch, a nonlinear model of the driveline for simulation and a simplified model for control design, with a standing-start driver automaton for closed loop simulation, a detailed analysis of the engagement operation and the related comfort criteria, different control schemes aiming at meeting these criteria, friction coefficient and unknown input clutch torque observers, practical implementation issues and solutions based on experience of implementing optimal engagement strategies on two Renault prototypes.

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