

MATHEMATICS
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Volume 134

Qualitative Analysis of Large Scale Dynamical Systems

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Qualitative Analysis Of Large Scale Dynamical Systems

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Qualitative Analysis of Large Scale Dynamical Systems Michel, 1977-08-24 This book develops a unified approach to qualitative analysis of large scale systems described by many diversified types of equations **Ying chieh ti san ko wu nien chi hua ti ti i nien**, 1966 *Stability and Control of Large-Scale Dynamical Systems* Wassim M. Haddad, Sergey G. Nersesov, 2011-11-14 Modern complex large scale dynamical systems exist in virtually every aspect of science and engineering and are associated with a wide variety of physical technological environmental and social phenomena including aerospace power communications and network systems to name just a few This book develops a general stability analysis and control design framework for nonlinear large scale interconnected dynamical systems and presents the most complete treatment on vector Lyapunov function methods vector dissipativity theory and decentralized control architectures Large scale dynamical systems are strongly interconnected and consist of interacting subsystems exchanging matter energy or information with the environment The sheer size or dimensionality of these systems necessitates decentralized analysis and control system synthesis methods for their analysis and design Written in a theorem proof format with examples to illustrate new concepts this book addresses continuous time discrete time and hybrid large scale systems It develops finite time stability and finite time decentralized stabilization thermodynamic modeling maximum entropy control and energy based decentralized control This book will interest applied mathematicians dynamical systems theorists control theorists and engineers and anyone seeking a fundamental and comprehensive understanding of large scale interconnected dynamical systems and control *Large-Scale Systems Control and Decision Making* H. Tamura, 1990-01-19 Six contributors from Japanese universities explore the basic theory and methodology of control and decision making in systems that either contain many variables or have some special characteristics such as multiple subsystems or control stations a decentralized and or hierarchical information structure **Stability of Dynamical Systems** Anthony N. Michel, Ling Hou, Derong Liu, 2008 Filling a gap in the literature this volume offers the first comprehensive analysis of all the major types of system models Throughout the text there are many examples and applications to important classes of systems in areas such as power and energy feedback control artificial neural networks digital signal processing and control manufacturing computer networks and socio economics Replete with exercises and requiring basic knowledge of linear algebra analysis and differential equations the work may be used as a textbook for graduate courses in stability theory of dynamical systems The book may also serve as a self study reference for graduate students researchers and practitioners in a huge variety of fields **Qualitative Methods in Nonlinear Dynamics** A.A. Martynyuk, 2001-11-05 Presents new approaches to qualitative analysis of continuous discrete time and impulsive nonlinear systems via Liapunov matrix valued functions that introduce more effective tests for solving problems of estimating the domains of asymptotic stability *Stability and Control of Dynamical Systems with Applications* Derong Liu, Panos J. Antsaklis, 2012-12-06 It is with great pleasure that I offer my reflections on Professor

Anthony N Michel's retirement from the University of Notre Dame I have known Tony since 1984 when he joined the University of Notre Dame's faculty as Chair of the Department of Electrical Engineering Tony has had a long and outstanding career As a researcher he has made important contributions in several areas of systems theory and control theory especially stability analysis of large scale dynamical systems The numerous awards he received from the professional societies particularly the Institute of Electrical and Electronics Engineers IEEE are a testament to his accomplishments in research He received the IEEE Control Systems Society's Best Transactions Paper Award 1978 and the IEEE Circuits and Systems Society's Guillemin Cauer Prize Paper Award 1984 and Myril B Reed Outstanding Paper Award 1993 among others In addition he was a Fulbright Scholar 1992 and received the Alexander von Humboldt Forschungspreis Alexander von Humboldt Research Award for Senior U S Scientists from the German government 1997 To date he has written eight books and published over 150 archival journal papers Tony is also an effective administrator who inspires high academic standards

Control of Uncertain Dynamic Systems Shankar P. Bhattacharyya, Lee H. Keel, 2020-09-23 This book is a collection of 34 papers presented by leading researchers at the International Workshop on Robust Control held in San Antonio Texas in March 1991 The common theme tying these papers together is the analysis synthesis and design of control systems subject to various uncertainties The papers describe the latest results in parametric uncertainty H_∞ uncertainty l₁ optical control and Quantitative Feedback Theory QFT The book is the first to bring together all the diverse points of view addressing the robust control problem and should strongly influence development in the robust control field for years to come For this reason control theorists engineers and applied mathematicians should consider it a crucial acquisition for their libraries

Advances in Nonlinear Dynamics S. Sivasundaram, A.A. Martynyuk, 2023-01-06 Dedicated to Professor S Leela in recognition of her significant contribution to the field of nonlinear dynamics and differential equations this text consists of 38 papers contributed by experts from 15 countries together with a survey of Professor Leela's work The first group of papers examines stability the second process controls and the third section contains papers on various topics including solutions for new classes of systems of equations and boundary problems and proofs of basic theorems Many of the featured problems are associated with the ideas and methods proposed and developed by Professor Leela

Concise Encyclopedia of Modelling and Simulation D.P. Atherton, P. Borne, 2013-10-22 The Concise Encyclopedia of Modelling Simulation contains 172 alphabetically arranged articles describing the modelling and simulation of physical systems The emphasis is on mathematical models and their various forms although other types of models such as knowledge based linguistics based graphical and data based are also discussed The articles are revised from the Systems Control Encyclopedia and many newly commissioned articles are included describing recent developments in the field Articles on identification cover all aspects of this problem from the use and choice of specific test signals to problems of model order and the many algorithms and approaches to parameter estimation Computational techniques such as the finite element method that play an important role

in analyzing nonlinear models are covered Articles outline the development of simulation consider currently available simulation languages describe applications and cover current developments in the area Where appropriate illustrations and tables are included to clarify particular topics This encyclopedia will be a valuable reference source for all practising engineers researchers and postgraduate students in the field of modelling and simulation

Stability Domains Lyubomir T. Gruyitch, Jean-Pierre Richard, Pierre Borne, Jean-Claude Gentina, 2003-12-15 Stability Domains is an up to date account of stability theory with particular emphasis on stability domains Beyond the fundamental basis of the theory of dynamical systems it includes recent developments in the classical Lyapunov stability concept practical stability properties and a new Lyapunov methodology for nonlinear systems It also introduces classical Lyapunov and practical stability theory for time invariant nonlinear systems in general and for complex interconnected large scale nonlinear dynamical systems in particular This is a complete treatment of the theory of stability domains useful for postgraduates and researchers working in this area of applied mathematics and engineering

Stability Regions of Nonlinear Dynamical Systems Hsiao-Dong Chiang, Luís F. C. Alberto, 2015-08-13 An authoritative treatment by leading researchers covering theory and optimal estimation along with practical applications

Decentralized Control of Complex Systems Dragoslav D. Siljak, 2013-07-24 Starting with a graph theoretic framework for structural modeling of complex systems this text presents results related to robust stabilization via decentralized state feedback Subsequent chapters explore optimization output feedback the manipulative power of graphs overlapping decompositions and the underlying inclusion principle and reliability design An appendix provides efficient graph algorithms 1991 edition

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Summary of Awards in Energy-related General Research National Science Foundation (U.S.). Research Directorate, 1974

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Trends in Theory and Practice of Nonlinear Differential Equations V. Lakshmikantham, 2020-12-17 This book is based on an International Conference on Trends in Theory and Practice of Nonlinear Differential Equations held at The University of Texas at Arlington It aims to feature recent trends in theory and practice of nonlinear differential equations

Linear Systems Panos J. Antsaklis, Anthony N. Michel, 2005-10-27 There are three words that characterize this work thoroughness completeness and clarity The authors are congratulated for taking the time to write an excellent linear systems textbook The authors have used their mastery of the subject to produce a textbook that very effectively presents the theory of linear systems as it has evolved over the last thirty years The result is a comprehensive complete and clear exposition that serves as an excellent foundation for more advanced topics in system theory and control IEEE Transactions on Automatic Control In assessing the present book as a potential textbook for our first graduate linear systems course I find that Antsaklis and Michel have contributed an expertly written and high quality textbook to the field and are to be congratulated Because of its mathematical sophistication and completeness the present

book is highly recommended for use both as a textbook as well as a reference Automatica Linear systems theory plays a broad and fundamental role in electrical mechanical chemical and aerospace engineering communications and signal processing A thorough introduction to systems theory with emphasis on control is presented in this self contained textbook The book examines the fundamental properties that govern the behavior of systems by developing their mathematical descriptions Linear time invariant time varying continuous time and discrete time systems are covered Rigorous development of classic and contemporary topics in linear systems as well as extensive coverage of stability and polynomial matrix fractional representation provide the necessary foundation for further study of systems and control Linear Systems is written as a textbook for a challenging one semester graduate course a solutions manual is available to instructors upon adoption of the text The book s flexible coverage and self contained presentation also make it an excellent reference guide or self study manual For a treatment of linear systems that focuses primarily on the time invariant case using streamlined presentation of the material with less formal and more intuitive proofs see the authors companion book entitled A Linear Systems Primer

Interdisciplinary Topics in Applied Mathematics, Modeling and Computational Science Monica G. Cojocaru,Ilias S. Kotsireas,Roman N. Makarov,Roderick V. N. Melnik,Hasan Shodiev,2015-07-03 The Applied Mathematics Modelling and Computational Science AMMCS conference aims to promote interdisciplinary research and collaboration The contributions in this volume cover the latest research in mathematical and computational sciences modeling and simulation as well as their applications in natural and social sciences engineering and technology industry and finance The 2013 conference the second in a series of AMMCS meetings was held August 26 30 and organized in cooperation with AIMS and SIAM with support from the Fields Institute in Toronto and Wilfrid Laurier University There were many young scientists at AMMCS 2013 both as presenters and as organizers This proceedings contains refereed papers contributed by the participants of the AMMCS 2013 after the conference This volume is suitable for researchers and graduate students mathematicians and engineers industrialists and anyone who would like to delve into the interdisciplinary research of applied and computational mathematics and its areas of applications Differential Equations and Control Theory Z. Deng,Z. Liang,G. Lu,S. Ruan,2020-11-25 This work presents the proceedings from the International Conference on Differential Equations and Control Theory held recently in Wuhan China It provides an overview of current developments in a range of topics including dynamical systems optimal control theory stochastic control chaos fractals wavelets and ordinary partial functional and stochastic differential equations

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