Partial Stability and Control

V.I. Vorotnikov

Birkhouser

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Zheng-Hua Luo,Bao-Zhu Guo,Ömer Morgül

Partial Stability And Control:

Partial Stability and Control V.I. Vorotnikov,2012-12-06 Unlike the conventional research for the general theory of stability this mono graph deals with problems on stability and stabilization of dynamic systems with respect not to all but just to a given part of the variables characterizing these systems Such problems are often referred to as the problems of partial stability stabilization. They naturally arise in applications either from the requirement of proper performance of a system or in assessing system capa bility. In addition a lot of actual or desired phenomena can be formulated in terms of these problems and be analyzed with these problems taken as the basis. The following multiaspect phenomena and problems can be indicated Lotka Volterra ecological principle of extinction focusing and acceleration of particles in electromagnetic fields drift of the gyroscope axis stabilization of a spacecraft by specially arranged relative motion of rotors connected to it. Also very effective is the approach to the problem of stability stabilization with respect to all the variables based on preliminary analysis of partial stability stabilization A M Lyapunov the founder of the modern theory of stability was the first to formulate the problem of partial stability Later works by V V Rumyan tsev drew the attention of many mathematicians and mechanicians around the world to this problem which resulted in its being intensively worked out. The method of Lyapunov functions became the key investigative method which turned out to be very effective in analyzing both theoretic and applied problems.

Partial Stability and Control Vladimir Il'ich Vorotnikov, 1998 Partial Stability and Control develops a new efficient method of analysis and of control synthesis for problems on partial stability and control in dynamic systems described by ordinary differential equations including delay stochastic and uncertain systems The method is based on efficient procedures of transformation on initial systems or their subsystems for controlled systems and allows the solutions to be simplified In addition the method also allows many linear and nonlinear problems to be solved that cannot be easily done with available methods Ample attention is given to nonlinear game theoretical problems of reorientation of an asymmetric solid This book will be a valuable reference for advanced graduates and professionals in applied mathematics mechanics and control and control engineering who use stability theory and control methods **Finite Difference Methods for Ordinary and Partial Differential Equations** Randall J. LeVeque,2007-01-01 This book introduces finite difference methods for both ordinary differential equations ODEs and partial differential equations PDEs and discusses the similarities and differences between algorithm design and stability analysis for different types of equations A unified view of stability theory for ODEs and PDEs is presented and the interplay between ODE and PDE analysis is stressed The text emphasizes standard classical methods but several newer approaches also are introduced and are described in the context of simple motivating examples

Input-to-State Stability for PDEs Iasson Karafyllis,Miroslav Krstic,2018-06-07 This book lays the foundation for the study of input to state stability ISS of partial differential equations PDEs predominantly of two classes parabolic and hyperbolic This foundation consists of new PDE specific tools In addition to developing ISS theorems equipped with gain estimates with

respect to external disturbances the authors develop small gain stability theorems for systems involving PDEs A variety of system combinations are considered PDEs of either class with static maps PDEs again of either class with ODEs PDEs of the same class parabolic with parabolic and hyperbolic with hyperbolic and feedback loops of PDEs of different classes parabolic with hyperbolic In addition to stability results including ISS the text develops existence and uniqueness theory for all systems that are considered Many of these results answer for the first time the existence and uniqueness problems for many problems that have dominated the PDE control literature of the last two decades including for PDEs that include non local terms backstepping control designs which result in non local boundary conditions Input to State Stability for PDEs will interest applied mathematicians and control specialists researching PDEs either as graduate students or full time academics It also contains a large number of applications that are at the core of many scientific disciplines and so will be of importance for researchers in physics engineering biology social systems and others Boundary Control of PDEs Miroslav Krstic, Andrey Smyshlyaev, 2008-01-01 The text s broad coverage includes parabolic PDEs hyperbolic PDEs of first and second order fluid thermal and structural systems delay systems PDEs with third and fourth derivatives in space including variants of linearized Ginzburg Landau Schrodinger Kuramoto Sivashinsky KdV beam and Navier Stokes equations real valued as well as complex valued PDEs stabilization as well as motion planning and trajectory tracking for PDEs and elements of adaptive control for PDEs and control of nonlinear PDEs Stability and Stabilization of Infinite Dimensional Systems with Applications Zheng-Hua Luo,Bao-Zhu Guo,Ömer Morgül,2012-12-06 This book reports on recent achievements in stability and feedback stabilization of infinite systems In particular emphasis is placed on second order partial differential equations such as Euler Bernoulli beam equations which arise from vibration control of flexible robots arms and large space structures Various control methods such as sensor feedback control and dynamic boundary control are applied to stabilize the equations Many new theorems and methods are included in the book Proof procedures of existing theorems are simplified and detailed proofs have been given to most theorems New results on semigroups and their stability are presented and readers can learn several useful techniques for solving practical engineering problems Until now the recently obtained research results included in this book were unavailable in one volume This self contained book is an invaluable source of information for all those who are familiar with some basic theorems of functional analysis Nonlinear Dynamical Systems and Control Wassim M. Haddad, VijaySekhar Chellaboina, 2011-09-19 Nonlinear Dynamical Systems and Control presents and develops an extensive treatment of stability analysis and control design of nonlinear dynamical systems with an emphasis on Lyapunov based methods Dynamical system theory lies at the heart of mathematical sciences and engineering The application of dynamical systems has crossed interdisciplinary boundaries from chemistry to biochemistry to chemical kinetics from medicine to biology to population genetics from economics to sociology to psychology and from physics to mechanics to engineering The increasingly complex nature of engineering systems requiring feedback control to obtain a desired system behavior also gives rise to dynamical systems Wassim Haddad and VijaySekhar Chellaboina provide an exhaustive treatment of nonlinear systems theory and control using the highest standards of exposition and rigor This graduate level textbook goes well beyond standard treatments by developing Lyapunov stability theory partial stability boundedness input to state stability input output stability finite time stability semistability stability of sets and periodic orbits and stability theorems via vector Lyapunov functions A complete and thorough treatment of dissipativity theory absolute stability theory stability of feedback systems optimal control disturbance rejection control and robust control for nonlinear dynamical systems is also given This book is an indispensable resource for applied mathematicians dynamical systems theorists control theorists and engineers

PETSc for Partial Differential Equations: Numerical Solutions in C and Python Ed Bueler, 2020-10-22 The Portable Extensible Toolkit for Scientific Computation PETSc is an open source library of advanced data structures and methods for solving linear and nonlinear equations and for managing discretizations This book uses these modern numerical tools to demonstrate how to solve nonlinear partial differential equations PDEs in parallel It starts from key mathematical concepts such as Krylov space methods preconditioning multigrid and Newton's method In PETSc these components are composed at run time into fast solvers Discretizations are introduced from the beginning with an emphasis on finite difference and finite element methodologies The example C programs of the first 12 chapters listed on the inside front cover solve mostly elliptic and parabolic PDE problems Discretization leads to large sparse and generally nonlinear systems of algebraic equations For such problems mathematical solver concepts are explained and illustrated through the examples with sufficient context to speed further development PETSc for Partial Differential Equations addresses both discretizations and fast solvers for PDEs emphasizing practice more than theory Well structured examples lead to run time choices that result in high solver performance and parallel scalability The last two chapters build on the reader s understanding of fast solver concepts when applying the Firedrake Python finite element solver library This textbook the first to cover PETSc programming for nonlinear PDEs provides an on ramp for graduate students and researchers to a major area of high performance computing for science and engineering It is suitable as a supplement for courses in scientific computing or numerical methods for differential Operator Theory and Analysis H. Bart, I. Gohberg, A.C.M. Ran, 2001-01-01 On November 12 14 1997 a equations workshop was held at the Vrije Universiteit Amsterdam on the occasion of the sixtieth birthday of MA Kaashoek The present volume contains the proceedings of this workshop The workshop was attended by 44 participants from all over the world partici pants came from Austria Belgium Canada Germany Ireland Israel Italy The Netherlands South Africa Switzerland Ukraine and the USA The atmosphere at the workshop was very warm and friendly There where 21 plenary lectures and each lecture was followed by a lively discussion The workshop was supported by the Vakgroep Wiskunde of the Vrije Univer siteit the department of Mathematics and Computer Science of the Vrije Univer siteit the Stichting VU Computer Science Mathematics Research Centre the Thomas Stieltjes Institute for Mathematics and the department of Economics of the

Erasmus University Rotterdam The organizers would like to take this opportunity to express their gratitude for the support Without it the workshop would not have been so successful as it was Table of Contents Preface v Photograph of M A Kaashoek xiii Curriculum Vitae of M A Kaashoek xv List of Publications of M A Kaashoek xix l Gohberg Opening Address xxxi H Bart A C M Ran and H I Woerdeman Personal Reminiscences xxxv V Adamyan and R Mennicken On the Separation of Certain Spectral Components of Selfadjoint Operator Matrices 1 1 Introduction 1 2 Conditions for the Separation of Spectral Components 4 3 Example 9 References Flight Stability and Automatic Control Robert C. Nelson, 1998 This edition of this this flight stability and controls guide features an unintimidating math level full coverage of terminology and expanded discussions of classical to modern control theory and autopilot designs Extensive examples problems and historical notes make this concise book a vital addition to the engineer s library Stability of Dynamical Systems ,2008 In the analysis and synthesis of contemporary systems engineers and scientists are frequently confronted with increasingly complex models that may simultaneously include components whose states evolve along continuous time and discrete instants components whose descriptions may exhibit nonlinearities time lags transportation delays hysteresis effects and uncertainties in parameters and components that cannot be described by various classical equations as in the case of discrete event systems logic commands and Petri nets The qualitative analysis of such systems requires results for finite dimensional and infinite dimensional systems continuous time and discrete time systems continuous continuous time and discontinuous continuous time systems and hybrid systems involving a mixture of continuous and discrete dynamics Filling a gap in the literature this textbook presents the first comprehensive stability analysis of all the major types of system models described above Throughout the book the applicability of the developed theory is demonstrated by means of many specific examples and applications to important classes of systems including digital control systems nonlinear regulator systems pulse width modulated feedback control systems artificial neural networks with and without time delays digital signal processing a class of discrete event systems with applications to manufacturing and computer load balancing problems and a multicore nuclear reactor model The book covers the following four general topics Representation and modeling of dynamical systems of the types described above Presentation of Lyapunov and Lagrange stability theory for dynamical systems defined on general metric spaces Specialization of this stability theory to finite dimensional dynamical systems Specialization of this stability theory to infinite dimensional dynamical systems 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 applied mathematics engineering computer science physics chemistry biology and economics **Stability and Boundary Stabilization of 1-D** Hyperbolic Systems Georges Bastin, Jean-Michel Coron, 2016-08-09 This monograph explores the modeling of conservation and balance laws of one dimensional hyperbolic systems using partial differential equations It presents typical examples of

hyperbolic systems for a wide range of physical engineering applications allowing readers to understand the concepts in whichever setting is most familiar to them With these examples it also illustrates how control boundary conditions may be defined for the most commonly used control devices The authors begin with the simple case of systems of two linear conservation laws and then consider the stability of systems under more general boundary conditions that may be differential nonlinear or switching They then extend their discussion to the case of nonlinear conservation laws and demonstrate the use of Lyapunov functions in this type of analysis Systems of balance laws are considered next starting with the linear variety before they move on to more general cases of nonlinear ones They go on to show how the problem of boundary stabilization of systems of two balance laws by both full state and dynamic output feedback in observer controller form is solved by using a backstepping method in which the gains of the feedback laws are solutions of an associated system of linear hyperbolic PDEs The final chapter presents a case study on the control of navigable rivers to emphasize the main technological features that may occur in real live applications of boundary feedback control Stability and Boundary Stabilization of 1 D Hyperbolic Systems will be of interest to graduate students and researchers in applied mathematics and control engineering The wide range of applications it discusses will help it to have as broad an appeal within these groups as possible Automation and Robotics Juan-Manuel Ramos-Arreguin, 2008-05-01 In this book a set of relevant updated and selected papers in the field of automation and robotics are presented These papers describe projects where topics of artificial intelligence modeling and simulation process target tracking algorithms kinematic constraints of the closed loops non linear control are used in advanced and recent research Mathematical Control of Coupled PDEs Irena Lasiecka, 2002-01-01 Functional Differential Equations Constantin Corduneanu, Yizeng Li, Mehran Mahdavi, 2016-04-11 Features new results and up to date advances in modeling and solving differential equations Introducing the various classes of functional differential equations Functional Differential Equations Advances and Applications presents the needed tools and topics to study the various classes of functional differential equations and is primarily concerned with the existence uniqueness and estimates of solutions to specific problems The book focuses on the general theory of functional differential equations provides the requisite mathematical background and details the qualitative behavior of solutions to functional differential equations The book addresses problems of stability particularly for ordinary differential equations in which the theory can provide models for other classes of functional differential equations and the stability of solutions is useful for the application of results within various fields of science engineering and economics Functional Differential Equations Advances and Applications also features Discussions on the classes of equations that cannot be solved to the highest order derivative and in turn addresses existence results and behavior types Oscillatory motion and solutions that occur in many real world phenomena as well as in man made machines Numerous examples and applications with a specific focus on ordinary differential equations and functional differential equations with finite delay An appendix that introduces generalized Fourier series and Fourier analysis

after periodicity and almost periodicity An extensive Bibliography with over 550 references that connects the presented concepts to further topical exploration Functional Differential Equations Advances and Applications is an ideal reference for academics and practitioners in applied mathematics engineering economics and physics The book is also an appropriate textbook for graduate and PhD level courses in applied mathematics differential and difference equations differential analysis and dynamics processes CONSTANTIN CORDUNEANU PhD is Emeritus Professor in the Department of Mathematics at The University of Texas at Arlington USA The author of six books and over 200 journal articles he is currently Associate Editor for seven journals a member of the American Mathematical Society Society for Industrial and Applied Mathematics and the Romanian Academy and past president of the American Romanian Academy of Arts and Sciences YIZENG LI PhD is Professor in the Department of Mathematics at Tarrant County College USA He is a member of the Society for Industrial and Applied Mathematics MEHRAN MAHDAVI PhD is Professor in the Department of Mathematics at Bowie State University USA The author of numerous journal articles he is a member of the American Mathematical Society Society for Industrial and Applied Mathematics and the Mathematical Association of America Nonlinear Systems Of Partial Differential Equations: Applications To Life And Physical Sciences Anthony W Leung, 2009-08-28 The book presents the theory of diffusion reaction equations starting from the Volterra Lotka systems developed in the eighties for Dirichlet boundary conditions It uses the analysis of applicable systems of partial differential equations as a starting point for studying upper lower solutions bifurcation degree theory and other nonlinear methods It also illustrates the use of semigroup stability theorems and W2ptheory Introductory explanations are included in the appendices for non expert readers The first chapter covers a wide range of steady state and stability results involving prey predator competing and cooperating species under strong or weak interactions Many diagrams are included to easily understand the description of the range of parameters for coexistence The book provides a comprehensive presentation of topics developed by numerous researchers Large complex systems are introduced for modern research in ecology medicine and engineering Chapter 3 combines the theories of earlier chapters with the optimal control of systems involving resource management and fission reactors This is the first book to present such topics at research level Chapter 4 considers persistence cross diffusion and boundary induced blow up etc The book also covers traveling or systems of waves coupled Navier Stokes and Maxwell systems and fluid equations of plasma display These should be of interest to life and physical scientists Lyapunov Matrix Equation in System Stability and Control Zoran Gajic, Muhammad Tahir Javed Qureshi, 2008-01-01 This comprehensive treatment provides solutions to many engineering and mathematical problems related to the Lyapunov matrix equation with self contained chapters for easy reference The authors offer a wide variety of techniques for solving and analyzing the algebraic differential and difference Lyapunov matrix equations of continuous time and discrete time systems 1995 edition Stability and Stabilization William J. Terrell, 2009-02-15 Stability and Stabilization is the first intermediate level textbook that covers stability and stabilization of

equilibria for both linear and nonlinear time invariant systems of ordinary differential equations Designed for advanced undergraduates and beginning graduate students in the sciences engineering and mathematics the book takes a unique modern approach that bridges the gap between linear and nonlinear systems Presenting stability and stabilization of equilibria as a core problem of mathematical control theory the book emphasizes the subject s mathematical coherence and unity and it introduces and develops many of the core concepts of systems and control theory There are five chapters on linear systems and nine chapters on nonlinear systems an introductory chapter a mathematical background chapter a short final chapter on further reading and appendixes on basic analysis ordinary differential equations manifolds and the Frobenius theorem and comparison functions and their use in differential equations The introduction to linear system theory presents the full framework of basic state space theory providing just enough detail to prepare students for the material on nonlinear systems Focuses on stability and feedback stabilization Bridges the gap between linear and nonlinear systems for advanced undergraduates and beginning graduate students Balances coverage of linear and nonlinear systems Covers cascade systems Includes many examples and exercises Small-signal stability, control and dynamic performance of power systems M.J. Gibbard, David J. Vowles, Pouvan Pourbeik, 2015-07-15 A thorough and exhaustive presentation of theoretical analysis and practical techniques for the small signal analysis and control of large modern electric power systems as well as an assessment of their stability and damping performance Generalized Solutions of Functional Differential Equations Joseph Wiener,1993 The need to investigate functional differential equations with discontinuous delays is addressed in this book Recording the work and findings of several scientists on differential equations with piecewise continuous arguments over the last few years this book serves as a useful source of reference Great interest is placed on discussing the stability oscillation and periodic properties of the solutions Considerable attention is also given to the study of initial and boundary value problems for partial differential equations of mathematical physics with discontinuous time delays In fact a large part of the book is devoted to the exploration of differential and functional differential equations in spaces of generalized functions distributions and contains a wealth of new information in this area Each topic discussed appears to provide ample opportunity for extending the known results A list of new research topics and open problems is also included as an update

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Partial Stability And Control Introduction

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