Systems & Control: Foundations & Applications

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Representation and Control of Infinite Dimensional Systems

Second Edition



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Olof Staffans

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interplay between optimality and the qualitative properties of systems such as controllability observability and stability This theory is far more difficult for infinite dimensional systems such as systems with time delay and distributed parameter systems In the first place the difficulty stems from the essential unboundedness of the system operator Secondly when control and observation are exercised through the boundary of the domain the operator representing the sensor and actuator are also often unbounded The present book in two volumes is in some sense a self contained account of this theory of quadratic cost optimal control for a large class of infinite dimensional systems Volume I deals with the theory of time evolution of controlled infinite dimensional systems It contains a reasonably complete account of the necessary semigroup theory and the theory of delay differential and partial differential equations Volume II deals with the optimal control of such systems when performance is measured via a quadratic cost It covers recent work on the boundary control of hyperbolic systems and exact controllability Some of the material covered here appears for the first time in book form The book should be useful for mathematicians and theoretical engineers interested in the field of control **Representation and Control of** Infinite Dimensional Systems Alain Bensoussan, Giuseppe Da Prato, Michel C. Delfour, Sanjoy K. Mitter, 2008-11-01 This unified revised second edition of a two volume set is a self contained account of quadratic cost optimal control for a large class of infinite dimensional systems. The original editions received outstanding reviews yet this new edition is more concise and self contained New material has been added to reflect the growth in the field over the past decade There is a unique chapter on semigroup theory of linear operators that brings together advanced concepts and techniques which are usually treated independently. The material on delay systems and structural operators has not yet appeared anywhere in book form

System Modeling and Optimization Dietmar Hömberg, Fredi Tröltzsch, 2013-02-20 This book is a collection of thoroughly refereed papers presented at the 25th IFIP TC 7 Conference on System Modeling and Optimization held in Dresden Germany in September 2011 The 55 revised papers were carefully selected from numerous submissions They are organized in the following topical sections control of distributed parameter systems stochastic optimization and control stabilization feedback and model predictive control flow control shape and structural optimization and applications and control of lumped parameter systems

Well-Posed Linear Systems Olof Staffans, 2005-02-24 Many infinite dimensional linear systems can be modelled in a Hilbert space setting Others such as those dealing with heat transfer or population dynamics need to be set more generally in Banach spaces This is the first book dealing with well posed infinite dimensional linear systems with an input a state and an output in a Hilbert or Banach space setting It is also the first to describe the class of non well posed systems induced by system nodes The author shows how standard finite dimensional results from systems theory can be extended to these more general classes of systems and complements them with new results which have no finite dimensional counterpart Much of the material presented is original and many results have never appeared in book form before A comprehensive bibliography rounds off this work which will be indispensable to all working in systems theory

operator theory delay equations and partial differential equations **Introduction to Time-Delay Systems** Emilia Fridman, 2014-09-02 The beginning of the 21st century can be characterized as the time delay boom leading to numerous important results The purpose of this book is two fold to familiarize the non expert reader with time delay systems and to provide a systematic treatment of modern ideas and techniques for experts This book is based on the course Introduction to time delay systems for graduate students in Engineering and Applied Mathematics that the author taught in Tel Aviv University in 2011 2012 and 2012 2013 academic years The sufficient background to follow most of the material are the undergraduate courses in mathematics and an introduction to control The book leads the reader from some basic classical results on time delay systems to recent developments on Lyapunov based analysis and design with applications to the hot topics of sampled data and network based control The objective is to provide useful tools that will allow the reader not only to apply the existing methods but also to develop new ones It should be of interest for researchers working in the field for graduate students in engineering and applied mathematics and for practicing engineers It may also be used as a textbook for a graduate course on time delay systems CONTROL SYSTEMS, ROBOTICS AND AUTOMATION - Volume XIV Heinz D. Unbehauen, 2009-10-11 This Encyclopedia of Control Systems Robotics and Automation is a component of the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias This 22 volume set contains 240 chapters each of size 5000 30000 words with perspectives applications and extensive illustrations It is the only publication of its kind carrying state of the art knowledge in the fields of Control Systems Robotics and Automation and is aimed by virtue of the several applications at the following five major target audiences University and College Students Educators Professional Practitioners Research Personnel and Policy Analysts Managers and Decision Makers and NGOs The Control Systems Handbook William S. Levine, 2018-10-03 At publication The Control Handbook immediately became the definitive resource that engineers working with modern control systems required Among its many accolades that first edition was cited by the AAP as the Best Engineering Handbook of 1996 Now 15 years later William Levine has once again compiled the most comprehensive and authoritative resource on control engineering He has fully reorganized the text to reflect the technical advances achieved since the last edition and has expanded its contents to include the multidisciplinary perspective that is making control engineering a critical component in so many fields Now expanded from one to three volumes The Control Handbook Second Edition organizes cutting edge contributions from more than 200 leading experts The third volume Control System Advanced Methods includes design and analysis methods for MIMO linear and LTI systems Kalman filters and observers hybrid systems and nonlinear systems It also covers advanced considerations regarding Stability Adaptive controls System identification Stochastic control Control of distributed parameter systems Networks and networked controls As with the first edition the new edition not only stands as a record of accomplishment in control engineering but provides researchers with the means to make further advances Progressively organized the first two

volumes in the set include Control System Fundamentals Control System Applications Strongly Stabilizable Distributed Parameter Systems Job Oostveen, 2000-01-01 Ouestions about stability arise in almost every control problem There are many physical problems in which exponential stability is too strong and for which the concept of strong stability is appropriate This book provides a solid mathematical framework for a structured approach to strongly stabilizable systems through integration of fundamental theory physical applications and numerical results The author includes a mathematical framework for studying PDE models of large flexible structures an important class of applications Advanced H∞ Control Yury V. Orlov, Luis T. Aguilar, 2014-02-20 This compact monograph is focused on disturbance attenuation in nonsmooth dynamic systems developing an H approach in the nonsmooth setting Similar to the standard nonlinear H approach the proposed nonsmooth design guarantees both the internal asymptotic stability of a nominal closed loop system and the dissipativity inequality which states that the size of an error signal is uniformly bounded with respect to the worst case size of an external disturbance signal This guarantee is achieved by constructing an energy or storage function that satisfies the dissipativity inequality and is then utilized as a Lyapunov function to ensure the internal stability requirements Advanced H Control is unique in the literature for its treatment of disturbance attenuation in nonsmooth systems It synthesizes various tools including Hamilton Jacobi Isaacs partial differential inequalities as well as Linear Matrix Inequalities Along with the finite dimensional treatment the synthesis is extended to infinite dimensional setting involving time delay and distributed parameter systems To help illustrate this synthesis the book focuses on electromechanical applications with nonsmooth phenomena caused by dry friction backlash and sampled data measurements Special attention is devoted to implementation issues Requiring familiarity with nonlinear systems theory this book will be accessible to g raduate students interested in systems analysis and design and is a welcome addition to the literature for researchers and practitioners in these areas

Stabilization of Infinite Dimensional Systems El Hassan Zerrik, Oscar Castillo, 2021-03-29 This book deals with the stabilization issue of infinite dimensional dynamical systems both at the theoretical and applications levels Systems theory is a branch of applied mathematics which is interdisciplinary and develops activities in fundamental research which are at the frontier of mathematics automation and engineering sciences It is everywhere innumerable and daily and moreover is there something which is not system it is present in medicine commerce economy psychology biological sciences finance architecture construction of towers bridges etc weather forecast robotics automobile aeronautics localization systems and so on These are the few fields of application that are useful and even essential to our society It is a question of studying the behavior of systems and acting on their evolution Among the most important notions in system theory which has attracted the most attention is stability The existing literature on systems stability is quite important but disparate and the purpose of this book is to bring together in one document the essential results on the stability of infinite dimensional dynamical systems In addition as such systems evolve in time and space explorations and research on their stability have been mainly focused on

the whole domain in which the system evolved The authors have strongly felt that in this sense important considerations are missing those which consist in considering that the system of interest may be unstable on the whole domain but stable in a certain region of the whole domain This is the case in many applications ranging from engineering sciences to living science For this reason the authors have dedicated this book to extension of classical results on stability to the regional case This book considers a very important issue which is that it should be accessible to mathematicians and to graduate engineering with a minimal background in functional analysis Moreover for the majority of the students this would be their only acquaintance with infinite dimensional system Accordingly it is organized by following increasing difficulty order The two first chapters deal with stability and stabilization of infinite dimensional linear systems described by partial differential equations The following chapters concern original and innovative aspects of stability and stabilization of certain classes of systems motivated by real applications that is to say bilinear and semi linear systems. The stability of these systems has been considered from a global and regional point of view A particular aspect concerning the stability of the gradient has also been considered for various classes of systems This book is aimed at students of doctoral and master s degrees engineering students and researchers interested in the stability of infinite dimensional dynamical systems in various aspects Force Plan for Defense Research Sciences, 1983 Systems, Approximation, Singular Integral Operators, and Related *Topics* Alexander A. Borichev, Nikolai K. Nikolski, 2001-11-01 This book is devoted to some topical problems and various applications of Operator Theory and to its interplay with many other fields of analysis as modern approximation the ory theory of dynamic sys tems harmonic analysis and complex analysis It consists of 20 carefully selected sur veys and research expository papers Their scope gives a representative status report on the field drawing a pic ture of a rapidly developing domain of analysis An abun dance of references completes the picture All papers included in the volume originate from lectures delivered at the 11th edition of the International Workshop on Operator The ory and its Applications IWOTA 2000 June 13 16 Bordeaux Some information about the conference including the complete list of participants can be found on forthcoming pages The editors are indebted to A Sudakov for helping them in polishing and assembling original TeX files A Borichev and N Nikolski Talence May 2001 v vii International Workshop on Operator Theory and Its Applications June 13 June 16 2000 Universite Bordeaux 1 The International Workshop on Operator Theory and its Applications IWOTA is a satellite meeting of the international symposium on the Mathe matical Theory of Networks and Systems MNTS In 2000 the MNTS is held in Perpignan France June 19 23 IWOTA 2000 was the eleventh workshop of this kind Advances in Modelling and Control of Non-integer-Order Systems Krzysztof J. Latawiec, Marian Łukaniszyn, Rafał Stanisławski, 2014-08-16 This volume presents selected aspects of non integer or fractional order systems whose analysis synthesis and applications have increasingly become a real challenge for various research communities ranging from science to engineering The spectrum of applications of the fractional order calculus has incredibly expanded in fact it would be hard to find a science engineering

related subject area where the fractional calculus had not been incorporated The content of the fractional calculus is ranged from pure mathematics to engineering implementations and so is the content of this volume. The volume is subdivided into six parts reflecting particular aspects of the fractional order calculus The first part contains a single invited paper on a new formulation of fractional order descriptor observers for fractional order descriptor continous LTI systems The second part provides new elements to the mathematical theory of fractional order systems In the third part of this volume a bunch of new results in approximation modeling and simulations of fractional order systems is given The fourth part presents new solutions to some problems in controllability and control of non integer order systems in particular fractional PID like control The fifth part analyzes the stability of non integer order systems and some new results are offered in this important respect in particular for discrete time systems. The final sixth part of this volume presents a spectrum of applications of the noninteger order calculus ranging from bi fractional filtering in particular of electromyographic signals through the thermal diffusion and advection diffusion processes to the SIEMENS platform implementation This volume s papers were all subjected to stimulating comments and discussions from the active audience of the RRNR 2014 the 6th Conference on Non integer Order Calculus and Its Applications that was organized by the Department of Electrical Control and Computer Engineering Opole University of Technology Opole Poland Periodic Feedback Stabilization for Linear Periodic Evolution Equations Gengsheng Wang, Yashan Xu, 2017-02-08 This book introduces a number of recent advances regarding periodic feedback stabilization for linear and time periodic evolution equations First it presents selected connections between linear quadratic optimal control theory and feedback stabilization theory for linear periodic evolution equations Secondly it identifies several criteria for the periodic feedback stabilization from the perspective of geometry algebra and analyses respectively Next it describes several ways to design periodic feedback laws Lastly the book introduces readers to key methods for designing the control machines Given its coverage and scope it offers a helpful guide for graduate students and researchers in the areas of control theory and applied mathematics Deterministic Control of Uncertain Systems Alan S. I. Zinober, 1990 Includes sections on Sliding mode control with switching command devices Hyperplane design and CAD of variable structure control systems Variable structure controllers for robots The hyperstability approach to VSCS design Nonlinear continuous feedback for robust tracking Control of uncertain systems with neglected dynamics Control of infinite dimensional plants Discrete and Continuous Dynamical Systems ,2005 Control of Flexible Structures Kirsten A. Morris, 1993 Flexible structures arise in significant important areas of application such as robotics large space structures and antenna control Difficulties related to sensing and identification hamper control of such systems These problems require collaboration between mathematicians and engineers To promote such collaboration the Fields Institute sponsored a three day workshop entitled Problems in Sensing Identification and Control of Flexible Structures in June 1992 This volume contains papers presented at the workshop Topics range from theoretical research on the well posedness of systems to experimental implementations of

various controllers A number of controller design techniques are discussed and compared and there are several papers on modelling the complex dynamics of flexible structures This book is a useful resource to control theorists engineers and mathematicians interested in this important field of research **Scientific and Technical Aerospace Reports**,1995 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database

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