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Infinite Dimensional Linear Control Systems The Time Optimal and Norm Optimal Problems

H.O. FATTORINI

Infinite Dimensional Linear Control Systems The Time Optimal And Norm Optimal Problems

Nikos E Mastorakis



Infinite Dimensional Linear Control Systems The Time Optimal And Norm Optimal Problems:

Infinite Dimensional Linear Control Systems, 2005-07-12 For more than forty years the equation $y' = Ay + u$ in Banach spaces has been used as model for optimal control processes described by partial differential equations in particular heat and diffusion processes Many of the outstanding open problems however have remained open until recently and some have never been solved This book is a survey of all results known to the author with emphasis on very recent results 1999 to date The book is restricted to linear equations and two particular problems the time optimal problem the norm optimal problem which results in a more focused and concrete treatment As experience shows results on linear equations are the basis for the treatment of their semilinear counterparts and techniques for the time and norm optimal problems can often be generalized to more general cost functionals The main object of this book is to be a state of the art monograph on the theory of the time and norm optimal controls for $y' = Ay + u$ that ends at the very latest frontier of research with open problems and indications for future research Key features Applications to optimal diffusion processes Applications to optimal heat propagation processes Modelling of optimal processes governed by partial differential equations Complete bibliography Includes the latest research on the subject Does not assume anything from the reader except basic functional analysis Accessible to researchers and advanced graduate students alike Applications to optimal diffusion processes Applications to optimal heat propagation processes Modelling of optimal processes governed by partial differential equations Complete bibliography Includes the latest research on the subject Does not assume anything from the reader except basic functional analysis Accessible to researchers and advanced graduate students alike

Time Optimal Control of Evolution Equations Gengsheng Wang, Lijuan Wang, Yashan Xu, Yubiao Zhang, 2018-08-22 This monograph develops a framework for time optimal control problems focusing on minimal and maximal time optimal controls for linear controlled evolution equations Its use in optimal control provides a welcome update to Fattorini's work on time optimal and norm optimal control problems By discussing the best way of representing various control problems and equivalence among them this systematic study gives readers the tools they need to solve practical problems in control After introducing preliminaries in functional analysis evolution equations and controllability and observability estimates the authors present their time optimal control framework which consists of four elements a controlled system a control constraint set a starting set and an ending set From there they use their framework to address areas of recent development in time optimal control including the existence of admissible controls and optimal controls Pontryagin's maximum principle for optimal controls the equivalence of different optimal control problems and bang bang properties This monograph will appeal to researchers and graduate students in time optimal control theory as well as related areas of controllability and dynamic programming For ease of reference the text itself is self contained on the topic of time optimal control Frequent examples throughout clarify the applications of theorems and definitions although experience with functional analysis and differential equations will be useful

Representation and Control of Infinite Dimensional

Systems Alain Bensoussan, Giuseppe Da Prato, Michel C. Delfour, Sanjoy K. Mitter, 2007-04-05 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

Maximum Principle and Dynamic Programming Viscosity Solution Approach Bing Sun, Bao-Zhu Guo, Zhen-Zhen Tao, 2025-08-02 This book is concerned with optimal control problems of dynamical systems described by partial differential equations PDEs The content covers the theory and numerical algorithms starting with open loop control and ending with closed loop control It includes Pontryagin's maximum principle and the Bellman dynamic programming principle based on the notion of viscosity solution The Bellman dynamic programming method can produce the optimal control in feedback form making it more appealing for online implementations and robustness The determination of the optimal feedback control law is of fundamental importance in optimal control and can be argued as the Holy Grail of control theory The book is organized into five chapters Chapter 1 presents necessary mathematical knowledge Chapters 2 and 3 Part 1 focus on the open loop control while Chapter 4 and 5 Part 2 focus on the closed loop control In this monograph we incorporate the notion of viscosity solution of PDE with dynamic programming approach The dynamic programming viscosity solution DPVS approach is then used to investigate optimal control problems In each problem the optimal feedback law is synthesized and numerically demonstrated The last chapter presents multiple algorithms for the DPVS approach including an upwind finite difference scheme with the convergence proof It is worth noting that the dynamic systems considered are primarily of technical or biologic origin which is a highlight of the book This book is systematic and self contained It can serve the expert as a ready reference for control theory of infinite dimensional systems These chapters taken together would also make a one semester course for graduate with first courses in PDE constrained optimal control

Parabolic Problems Joachim Escher, Patrick Guidotti, Matthias Hieber, Piotr Mucha, Jan W. Prüss, Yoshihiro Shibata, Gieri Simonett, Christoph Walker, Wojciech Zajączkowski, 2011-07-20 The volume originates from the Conference on Nonlinear Parabolic Problems held in celebration of Herbert Amann's 70th birthday at the Banach Center in Bedlewo Poland It features a collection of peer reviewed research papers by recognized experts highlighting recent advances in fields of Herbert Amann's interest such as nonlinear evolution equations fluid dynamics quasi linear parabolic equations and systems functional analysis and more

Numerical Control: Part A, 2022-02-15 Numerical Control Part A Volume 23 in the Handbook of Numerical Analysis series highlights new advances in the field with this new volume presenting interesting chapters written by an international board of authors Chapters in this volume include Numerics for finite dimensional control systems Moments and convex optimization for

analysis and control of nonlinear PDEs The turnpike property in optimal control Structure Preserving Numerical Schemes for Hamiltonian Dynamics Optimal Control of PDEs and FE Approximation Filtration techniques for the uniform controllability of semi discrete hyperbolic equations Numerical controllability properties of fractional partial differential equations Optimal Control Numerics and Applications of Fractional PDEs and much more Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Handbook of Numerical Analysis series Updated release includes the latest information on Numerical Control

Mathematical Analysis of Deterministic and Stochastic Problems in Complex Media Electromagnetics G. F. Roach, I. G. Stratis, A. N. Yannacopoulos, 2012-03-04 Electromagnetic complex media are artificial materials that affect the propagation of electromagnetic waves in surprising ways not usually seen in nature Because of their wide range of important applications these materials have been intensely studied over the past twenty five years mainly from the perspectives of physics and engineering But a body of rigorous mathematical theory has also gradually developed and this is the first book to present that theory Designed for researchers and advanced graduate students in applied mathematics electrical engineering and physics this book introduces the electromagnetics of complex media through a systematic state of the art account of their mathematical theory The book combines the study of well posedness homogenization and controllability of Maxwell equations complemented with constitutive relations describing complex media The book treats deterministic and stochastic problems both in the frequency and time domains It also covers computational aspects and scattering problems among other important topics Detailed appendices make the book self contained in terms of mathematical prerequisites and accessible to engineers and physicists as well as mathematicians

Functional Analysis and Evolution Equations Herbert Amann, Wolfgang Arendt, Frank Neubrander, Serge Nicaise, Joachim Below, 2008-02-28 Gunter Lumer was an outstanding mathematician whose works have great influence on the research community in mathematical analysis and evolution equations He was at the origin of the breath taking development the theory of semigroups saw after the pioneering book of Hille and Phillips from 1957 This volume contains invited contributions presenting the state of the art of these topics and reflecting the broad interests of Gunter Lumer

SIAM Journal on Control and Optimization Society for Industrial and Applied Mathematics, 1990 *European Control Conference 1995*, 1995-09-05 Proceedings of the European Control Conference 1995 Rome Italy 5 8 September 1995

Control in Finite and Infinite Dimension Emmanuel Trélat, 2024-09-05 This book is the result of various master and summer school courses the author has taught The objective is to provide the reader with an introduction to control theory and to the main tools allowing to treat general control systems The author hopes this book will serve as motivation to go deeper into the theory or numerical aspects that are not covered in this book This book might be helpful for graduate students and researchers in the field of control theory

Network Information Systems Wassim M. Haddad, Qing Hui, Junsoo Lee, 2023-06-06 This text presents a unique treatment of network control systems Drawing from fundamental

principles of dynamical systems theory and dynamical thermodynamics the authors develop a continuous time discrete time and hybrid dynamical system and control framework for linear and nonlinear large scale network systems The proposed framework extends the concepts of energy entropy and temperature to undirected and directed information networks Continuous time discrete time and hybrid thermodynamic principles are used to design distributed control protocol algorithms for static and dynamic networked systems in the face of system uncertainty exogenous disturbances imperfect system network communication and time delays Network Information Systems A Dynamical Systems Approach is written for applied mathematicians dynamical systems theorists control theorists and engineers Researchers and graduate students in a variety of fields who seek a fundamental understanding of the rich behavior of controlled large scale network systems will also find this book useful This book can be used for a first course on control design of large scale network systems such as control protocols for network systems network information systems a dynamical systems approach to network systems and network thermodynamic systems The prerequisites are a first course in nonlinear systems theory and a first course in advanced multivariable calculus

Fractional Order Processes Seshu Kumar Damarla, Madhusree Kundu, 2018-09-03 The book presents efficient numerical methods for simulation and analysis of physical processes exhibiting fractional order FO dynamics The book introduces FO system identification method to estimate parameters of a mathematical model under consideration from experimental or simulated data A simple tuning technique which aims to produce a robust FO PID controller exhibiting iso damping property during re parameterization of a plant is devised in the book A new numerical method to find an equivalent finite dimensional integer order system for an infinite dimensional FO system is developed in the book The book also introduces a numerical method to solve FO optimal control problems Key features Proposes generalized triangular function operational matrices Shows significant applications of triangular orthogonal functions as well as triangular strip operational matrices in simulation identification and control of fractional order processes Provides numerical methods for simulation of physical problems involving different types of weakly singular integral equations Abel s integral equation fractional order integro differential equations fractional order differential and differential algebraic equations and fractional order partial differential equations Suggests alternative way to do numerical computation of fractional order signals and systems and control Provides source codes developed in MATLAB for each chapter allowing the interested reader to take advantage of these codes for broadening and enhancing the scope of the book itself and developing new results

Recent Advances In Circuits And Systems Nikos E Mastorakis, 1998-10-12 Recent Advances in Circuits and Systems brings you a balanced state of the art presentation of the latest concepts methods algorithms techniques procedures and applications of the fascinating field of Circuits and Systems Written by eminent leading international experts the contributors provide up to date aspects of topics discussed and present fresh original insights into their own experience with Circuits and Systems The main aim of this book is to present most of the new trends and recent advances of the impressive

evolution in the discipline of circuits and systems Special emphasis is given in the interaction between the classic areas of systems theory feedback control circuits design electronics etc and the modern techniques of computational intelligence neural networks genetic algorithms fuzzy logic and expert systems since this fertile interaction promises to open up new horizons in circuits and systems theory This book is composed of four parts Part I is devoted to Circuits and Electronics and also includes Power Systems Part II refers to Systems Theory and Control H infinity problems feedback control non linear systems robust stability and robust control multivariable systems hybrid systems and hydraulic systems Part III presents the latest developments in the Robotics theory and applications while Part IV is devoted to Computational Intelligence in Systems Theory

Theory and Applications of Fractional Differential Equations A.A. Kilbas,H. M. Srivastava,J.J. Trujillo,2006-02-16 This work aims to present in a systematic manner results including the existence and uniqueness of solutions for the Cauchy Type and Cauchy problems involving nonlinear ordinary fractional differential equations

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 graduate students interested in systems analysis and design and is a welcome addition to the literature for researchers and practitioners in these areas

Stabilization of Distributed Parameter Systems: Design Methods and Applications

Grigory Sklyar,Alexander Zuyev,2021-03-01 This book presents recent results and envisages new solutions of the stabilization problem for infinite dimensional control systems Its content is based on the extended versions of presentations at the Thematic Minisymposium Stabilization of Distributed Parameter Systems Design Methods and Applications at ICIAM 2019 held in Valencia from 15 to 19 July 2019 This volume aims at bringing together contributions on stabilizing control design for different classes of dynamical systems described by partial differential equations functional differential equations delay equations and dynamical systems in abstract spaces This includes new results in the theory of nonlinear semigroups

port Hamiltonian systems turnpike phenomenon and further developments of Lyapunov's direct method. The scope of the book also covers applications of these methods to mathematical models in continuum mechanics and chemical engineering. It is addressed to readers interested in control theory, differential equations and dynamical systems. **Design Methods of Control Systems** D. Franke, F. Kraus, 2014-05-23. These Proceedings contain a selection of papers presented at the first IFAC Symposium on Design Methods of Control Systems. The volume contains three plenary papers and 97 technical papers, the latter classified under 15 section headings as listed in the contents. Control of Distributed Parameter Systems S. P. Banks, A. J. Pritchard, 2014-05-18. Control of Distributed Parameter Systems covers the proceedings of the Second IFAC Symposium, Coventry, held in Great Britain from June 28 to July 1, 1977. The book focuses on the methodologies, processes and techniques in the control of distributed parameter systems, including boundary value control, digital transfer matrix and differential equations. The selection first discusses the asymptotic methods in the optimal control of distributed systems, applications of distributed parameter control theory, a survey and dual variational inequalities for external eigenvalue problems. The book also ponders on stochastic differential equations in Hilbert space and their application to delay systems and linear quadratic optimal control problem over an infinite time horizon for a class of distributed parameter systems. The manuscript investigates the semigroup approach to boundary value control and stability of nonlinear distributed parameter systems. Topics include boundary control action implemented through a dynamical system, classical boundary value controls, stability of nonlinear systems and feedback control on the boundary. The text also focuses on the functional analysis interpretation of Lyapunov stability method of multipliers for a class of distributed parameter systems and digital transfer matrix approach to distributed system simulation. The selection is a dependable source of data for readers interested in the control of distributed parameter systems. Control and Estimation of Distributed Parameter Systems Wolfgang Desch, Franz Kappel, Karl Kunisch, 2012-12-06. Consisting of 16 refereed original contributions, this volume presents a diversified collection of recent results in control of distributed parameter systems. Topics addressed include optimal control in fluid mechanics, numerical methods for optimal control of partial differential equations, modeling and control of shells, level set methods, mesh adaptation for parameter estimation problems, shape optimization. Advanced graduate students and researchers will find the book an excellent guide to the forefront of control and estimation of distributed parameter systems.

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