

Birgit Jacob
Hans J. Zwart

Linear Port-Hamiltonian Systems on Infinite-dimensional Spaces

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Linear Port Hamiltonian Systems On Infinite Dimensional Spaces Operator Theory Advances And Applications Vol 223

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Linear Port-Hamiltonian Systems on Infinite-dimensional Spaces Birgit Jacob,Hans J. Zwart,2012-06-13 This book provides a self contained introduction to the theory of infinite dimensional systems theory and its applications to port Hamiltonian systems The textbook starts with elementary known results then progresses smoothly to advanced topics in current research Many physical systems can be formulated using a Hamiltonian framework leading to models described by ordinary or partial differential equations For the purpose of control and for the interconnection of two or more Hamiltonian systems it is essential to take into account this interaction with the environment This book is the first textbook on infinite dimensional port Hamiltonian systems An abstract functional analytical approach is combined with the physical approach to Hamiltonian systems This combined approach leads to easily verifiable conditions for well posedness and stability The book is accessible to graduate engineers and mathematicians with a minimal background in functional analysis Moreover the theory is illustrated by many worked out examples

Introduction to Infinite-Dimensional Systems Theory Ruth Curtain,Hans Zwart,2020-04-05 Infinite dimensional systems is a well established area of research with an ever increasing number of applications Given this trend there is a need for an introductory text treating system and control theory for this class of systems in detail This textbook is suitable for courses focusing on the various aspects of infinite dimensional state space theory This book is made accessible for mathematicians and post graduate engineers with a minimal background in infinite dimensional system theory To this end all the system theoretic concepts introduced throughout the text are illustrated by the same types of examples namely diffusion equations wave and beam equations delay equations and the new class of platoons type systems Other commonly met distributed and delay systems can be found in the exercise sections Every chapter ends with such a section containing about 30 exercises testing the theoretical concepts as well An extensive account of the mathematical background assumed is contained in the appendix

Operator Theory, Related Fields, and Applications Joseph Ball,Hans-Olav Tylli,Jani A. Virtanen,2025-10-11 This book presents 20 research and survey articles from several invited speakers and other participants at IWOTA 2023 held in Helsinki in August 2023 The topics range from concrete operators and matrices such as Toeplitz Hilbert matrix integral and Schrödinger operators to more abstract operator theory involving the invariant subspace problem random vector norms isometries and quantum metric spaces with further contributions related to inequalities for vector valued functions boundary value problems fractional calculus and the Korteweg de Vries equation

Control Theory of Infinite-Dimensional Systems Joachim Kerner,Hafida Laasri,Delio Mugnolo,2020-06-25 This book presents novel results by participants of the conference Control theory of infinite dimensional systems that took place in January 2018 at the FernUniversität in Hagen Topics include well posedness controllability optimal control problems as well as stability of linear and nonlinear systems and are covered by world leading experts in these areas

A distinguishing feature of the contributions in this volume is the particular combination of researchers from different fields in mathematics working in an interdisciplinary fashion on joint projects in mathematical system theory. More explicitly the fields of partial differential equations, semigroup theory, mathematical physics, graph and network theory as well as numerical analysis are all well represented.

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.

Modeling and Analysis of Linear Hyperbolic Systems of Balance Laws Krzysztof Bartecki, 2015-12-21. This monograph focuses on the mathematical modeling of distributed parameter systems in which mass, energy, transport or wave propagation phenomena occur and which are described by partial differential equations of hyperbolic type. The case of linear or linearized 2×2 hyperbolic systems of balance laws is considered, i.e. systems described by two coupled linear partial differential equations with two variables representing physical quantities depending on both time and one dimensional spatial variable. Based on practical examples of a double pipe heat exchanger and a transportation pipeline, two typical configurations of boundary input signals are analyzed: collocated, wherein both signals affect the system at the same spatial point, and anti collocated, in which the input signals are applied to the two different end points of the system. The results of this book emerge from the practical experience of the author gained during his studies conducted in the experimental installation of a heat exchange center as well as from his research experience in the field of mathematical and computer modeling of dynamic systems. The book presents valuable results concerning their state space transfer function and time domain representations which can be useful both for the open loop analysis as well as for the closed loop design. The book is primarily intended to help professionals as well as undergraduate and postgraduate students involved in modeling and automatic control of dynamic systems.

Introduction to Mathematical Systems Theory Christiaan Heij, André C.M. Ran, Frederik van Schagen, 2021-02-17. This book provides an introduction to the theory of linear systems and control for students in business mathematics, econometrics, computer science and engineering. The focus is on discrete time systems which are the most relevant in business applications as opposed to continuous time systems requiring less mathematical preliminaries. The subjects treated

are among the central topics of deterministic linear system theory controllability observability realization theory stability and stabilization by feedback LQ optimal control theory Kalman filtering and LQC control of stochastic systems are also discussed as are modeling time series analysis and model specification along with model validation This second edition has been updated and slightly expanded In addition supplementary material containing the exercises is now available on the Springer Link s book website

Positive Operator Semigroups András Bátkai, Marjeta Kramar Fijavž, Abdelaziz Rhandi, 2017-02-13 This book gives a gentle but up to date introduction into the theory of operator semigroups or linear dynamical systems which can be used with great success to describe the dynamics of complicated phenomena arising in many applications Positivity is a property which naturally appears in physical chemical biological or economic processes It adds a beautiful and far reaching mathematical structure to the dynamical systems and operators describing these processes In the first part the finite dimensional theory in a coordinate free way is developed which is difficult to find in literature This is a good opportunity to present the main ideas of the Perron Frobenius theory in a way which can be used in the infinite dimensional situation Applications to graph matrices age structured population models and economic models are discussed The infinite dimensional theory of positive operator semigroups with their spectral and asymptotic theory is developed in the second part Recent applications illustrate the theory like population equations neutron transport theory delay equations or flows in networks Each chapter is accompanied by a large set of exercises An up to date bibliography and a detailed subject index help the interested reader The book is intended primarily for graduate and master students The finite dimensional part however can be followed by an advanced bachelor with a solid knowledge of linear algebra and calculus

Semigroup Methods for Evolution Equations on Networks Delio Mugnolo, 2014-05-21 This concise text is based on a series of lectures held only a few years ago and originally intended as an introduction to known results on linear hyperbolic and parabolic equations Yet the topic of differential equations on graphs ramified spaces and more general network like objects has recently gained significant momentum and well beyond the confines of mathematics there is a lively interdisciplinary discourse on all aspects of so called complex networks Such network like structures can be found in virtually all branches of science engineering and the humanities and future research thus calls for solid theoretical foundations This book is specifically devoted to the study of evolution equations i e of time dependent differential equations such as the heat equation the wave equation or the Schrödinger equation quantum graphs bearing in mind that the majority of the literature in the last ten years on the subject of differential equations of graphs has been devoted to elliptic equations and related spectral problems Moreover for tackling the most general settings e g encoded in the transmission conditions in the network nodes one classical and elegant tool is that of operator semigroups This book is simultaneously a very concise introduction to this theory and a handbook on its applications to differential equations on networks With a more interdisciplinary readership in mind full proofs of mathematical statements have been frequently omitted in favor of keeping the text as concise fluid and

self contained as possible In addition a brief chapter devoted to the field of neurodynamics of the brain cortex provides a concrete link to ongoing applied research *Advances in Distributed Parameter Systems* Jean Auriol,Joachim Deutscher,Guilherme Mazanti,Giorgio Valmorbida,2022-04-24 The proposed book presents recent breakthroughs for the control of distributed parameter systems and follows on from a workshop devoted to this topic It introduces new and unified visions of the challenging control problems raised by distributed parameter systems The book collects contributions written by prominent international experts in the control community addressing a wide variety of topics It spans the full range from theoretical research to practical implementation and follows three traverse axes emerging ideas in terms of control strategies energy shaping prediction based control numerical control input saturation theoretical concepts for interconnected systems with potential non linear actuation dynamics advanced applications cable operated elevators traffic networks and numerical aspects Cutting edge experts in the field contributed in this volume making it a valuable reference source for control practitioners graduate students and scientists researching practical and theoretical solutions to the challenging problems raised by distributed parameter systems **Stabilization of Elastic Systems by Collocated Feedback** Kaïs Ammari,Serge Nicaise,2014-11-03 By introducing a new stabilization methodology this book characterizes the stability of a certain class of systems The stability exponential polynomial or weaker for the closed loop problem is reduced to an observability estimate for the corresponding uncontrolled system combined with a boundedness property of the transfer function of the associated open loop system A similar strategy is applied to systems where a delay term is added The book concludes with many concrete examples This book is addressed to graduate students in mathematics or engineering and also to researchers with an interest in stabilization and control systems governed by partial differential equations *Systems Theory and PDEs* Felix L. Schwenninger,Marcus Waurick,2024-09-20 This volume presents recent advances and open problems in the cross section of infinite dimensional systems theory and the modern treatment of PDEs Chapters are based on talks and problem sessions from the first Workshop on Systems Theory and PDEs WOSTAP held at TU Bergakademie Freiberg in July 2022 The main topics covered include Differential algebraic equations Port Hamiltonian systems in both finite and infinite dimensions Highly nonlinear equations related to elasticity plasticity Modeling of thermo piezo electromagnetism **Controller Design for Distributed Parameter Systems** Kirsten A. Morris,2020-06-01 This book addresses controller and estimator design for systems that vary both spatially and in time systems like fluid flow acoustic noise and flexible structures It includes coverage of the selection and placement of actuators and sensors for such distributed parameter systems The models for distributed parameter systems are coupled ordinary partial differential equations Approximations to the governing equations often of very high order are required and this complicates both controller design and optimization of the hardware locations Control system and estimator performance depends not only on the controller estimator design but also on the location of the hardware In helping the reader choose the best location for

actuators and sensors the analysis provided in this book is crucial because neither intuition nor trial and error is foolproof especially where multiple sensors and actuators are required and moving hardware can be difficult and costly The mechatronic approach advocated in which controller design is integrated with actuator location can lead to better performance without increased cost Similarly better estimation can be obtained with carefully placed sensors The text shows how proper hardware placement varies depending on whether disturbances are present whether the response should be reduced to an initial condition or whether controllability and or observability have to be optimized This book is aimed at non specialists interested in learning controller design for distributed parameter systems and the material presented has been used for student teaching The relevant basic systems theory is presented and followed by a description of controller synthesis using lumped approximations Numerical algorithms useful for efficient implementation in real engineering systems and practical computational challenges are also described and discussed

Wave Phenomena Willy Dörfler,Marlis

Hochbruck,Jonas Köhler,Andreas Rieder,Roland Schnaubelt,Christian Wieners,2023-03-30 This book presents the notes from the seminar on wave phenomena given in 2019 at the Mathematical Research Center in Oberwolfach The research on wave type problems is a fascinating and emerging field in mathematical research with many challenging applications in sciences and engineering Profound investigations on waves require a strong interaction of several mathematical disciplines including functional analysis partial differential equations mathematical modeling mathematical physics numerical analysis and scientific computing The goal of this book is to present a comprehensive introduction to the research on wave phenomena Starting with basic models for acoustic elastic and electro magnetic waves topics such as the existence of solutions for linear and some nonlinear material laws efficient discretizations and solution methods in space and time and the application to inverse parameter identification problems are covered The aim of this book is to intertwine analysis and numerical mathematics for wave type problems promoting thus cooperative research projects in this field

Multivariate

Prediction, de Branges Spaces, and Related Extension and Inverse Problems Damir Z. Arov,Harry Dym,2018-05-30

This monograph deals primarily with the prediction of vector valued stochastic processes that are either weakly stationary or have weakly stationary increments from finite segments of their past The main focus is on the analytic counterpart of these problems which amounts to computing projections onto subspaces of a Hilbert space of $p \times 1$ vector valued functions with an inner product that is defined in terms of the $p \times p$ matrix valued spectral density of the process The strategy is to identify these subspaces as vector valued de Branges spaces and then to express projections in terms of the reproducing kernels of these spaces and or in terms of a generalized Fourier transform that is obtained from the solution of an associated inverse spectral problem Subsequently the projection of the past onto the future and the future onto the past is interpreted in terms of the range of appropriately defined Hankel operators and their adjoints and in the last chapter assorted computations are carried out for rational spectral densities The underlying mathematics needed to tackle this class of problems is developed in

careful detail but to ease the reading an attempt is made to avoid excessive generality En route a number of results that to the best of our knowledge were only known for $p = 1$ are generalized to the case $p \geq 1$ **Mathematical Reviews** ,1999

System Theoretical Properties of Linear Port-Hamiltonian Systems on Infinite-dimensional Spaces Julia Theresa Kaiser,2021 *Spectral Analysis of Infinite Dimensional Hamiltonian Operators* Alatanjang Chen,Deyu Wu,Junjie Huang,Guolin Hou,2026-03-02 This book provides a systematic summary and condensation of research on infinite dimensional Hamiltonian operator spectrum theory over the past thirty years and offers simple and concise proofs for some new achievements The book first introduces Hamiltonian systems both finite dimensional and infinite dimensional laying the foundation for the subsequent introduction of infinite dimensional Hamiltonian operator spectrum theory Chapter 2 presents the infinite dimensional Hamiltonian operator and systematically elaborates on its spectral properties Chapters 3 and 4 focus on the completeness of the characteristic function system and the symplectic self adjointness of infinite dimensional Hamiltonian operators respectively achieving improvements and deepening of the relevant content Chapters 5 and 6 introduce the numerical range and the theory of indefinite metric spaces related to infinite dimensional Hamiltonian operators reflecting the broader application prospects of such operators and the novelty of the book's scope This book will be useful for senior undergraduate students graduate students and teachers specializing in mathematics To read this book readers are expected to have knowledge of mathematical analysis and advanced algebra including matrix theory and some basic knowledge of operator theory *Properties of Infinite Dimensional Hamiltonian Systems* P.R. Chernoff,J.E. Marsden,2006-11-15 Nearly Integrable Infinite-Dimensional Hamiltonian Systems Sergej B. Kuksin,2014-01-15

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