STABILITY OF FINITE AND INFINITE DIMENSIONAL SYSTEMS

Michael I. Gil'

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Stability Of Finite And Infinite Dimensional Systems

Rachel Sandford

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Stability of Finite and Infinite Dimensional Systems Michael I Gil',1998-09-30 **Dissipativity in Control Engineering** Alexander Schaum, 2021-07-19 Dissipativity as a natural mechanism of energy interchange is common to many physical systems that form the basis of modern automated control applications Over the last decades it has turned out as a useful concept that can be generalized and applied in an abstracted form to very different system setups including ordinary and partial differential equation models In this monograph the basic notions of stability dissipativity and systems theory are connected in order to establish a common basis for designing system monitoring and control schemes The approach is illustrated with a set of application examples covering finite and infinite dimensional models including a ship steering model the inverted pendulum chemical and biological reactors relaxation oscillators unstable heat equations and first order hyperbolic integro 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 Modelling Dynamics in Processes and Systems Wojciech Mitkowski, 2009-06-01 Dynamics is what characterizes virtually all phenomenae we face in the real world and processes that proceed in practically all kinds of inanimate and animate systems notably social systems For our purposes dynamics is viewed as time evolution of some characteristic features of the phenomenae or processes under consideration It is obvious that in virtually all non trivial problems dynamics can not be neglected and should be taken into account in the analyses to first get insight into the problem consider and second to be able to obtain meaningful results A convenient tool to deal with dynamics and its related evolution over time is to use the concept of a dynamic system which for the purposes of this volume can be characterized by the input control state and output spaces and a state transition equation Then starting from an initial state we can find a sequence of consecutive states outputs under consecutive inputs controls That is we obtain a trajectory The state transition equation may be given in various forms exemplified by differential and difference equations linear or nonlinear deterministic or stochastic or even fuzzy imprecisely specified fully or partially known etc These features can give rise to various problems the analysts may encounter like numerical difficulties instability strange forms of behavior e.g. chaotic etc This volume is concerned with some modern tools and techniques which can be useful for the modeling of dynamics We focus our attention on two important areas which play a key role nowadays namely automation and robotics and biological systems We also add some new applications which can greatly benefit from the availability of effective and efficient tools for modeling dynamics exemplified by some applications in security systems Modeling and Control of

Complex Physical Systems Vincent Duindam, Alessandro Macchelli, Stefano Stramigioli, Herman Bruyninckx, 2009-10-15 Energy exchange is a major foundation of the dynamics of physical systems and hence in the study of complex multi domain systems methodologies that explicitly describe the topology of energy exchanges are instrumental in structuring the modeling and the computation of the system's dynamics and its control This book is the outcome of the European Project Geoplex FP5 IST 2001 34166 that studied and extended such system modeling and control methodologies This unique book starts from the basic concept of port based modeling and extends it to port Hamiltonian systems This generic paradigm is applied to various physical domains showing its power and unifying flexibility for real multi domain systems and Hamiltonian Methods for Nonlinear Control 2003 A Astolfi, Francisco Gordillo, A J Van Der Schaft, 2003-10-07 This is the second of a series of IFAC Workshops initiated in 2000 The first one chaired and organized by Profs N Leonard and R Ortega was held in Princeton in March 2000 This proceedings volume looks at the role played by Lagrangian and Hamiltonian methods in disciplines such as classical mechanics quantum mechanics fluid dynamics electrodynamics celestial mechanics and how such methods can be practically applied in the control community Presents and illustrates new approaches to nonlinear control that exploit the Lagrangian and Hamiltonian structure of the system to be controlled Highlights the important role of Lagrangian and Hamiltonian Structures as design methods **Realization and Modelling** in System Theory A.C. Ran, J.H. van Schuppen, Marinus Kaashoek, 2013-03-07 This volume is the first of the three volume publication containing the proceedings of the 1989 International Symposium on the Mathematical Theory of Networks and Systems MTNS 89 which was held in Amsterdam The Netherlands June 19 23 1989 The International Symposia MTNS focus attention on problems from system and control theory circuit theory and signal processing which in general require application of sophisticated mathematical tools such as from function and operator theory linear algebra and matrix theory differential and algebraic geometry. The interaction between advanced mathematical methods and practical engineering problems of circuits systems and control which is typical for MTNS turns out to be most effective and is as these proceedings show a continuing source of exciting advances The first volume contains invited papers and a large selection of other symposium presentations on the general theory of deterministic and stochastic systems with an emphasis on realization and modelling A wide variety of recent results on approximate realization and system identification stochastic dynamical systems discrete event systems o systems singular systems and nonstandard models IS presented Preface vi Also a few papers on applications in hydrology and hydraulics are included The titles of the two other volumes are Robust Control of Linear Sys tems and Nonlinear Control volume 2 and Signal Processing Scatter ing and Operator Theory and Numerical Methods volume 3 The Editors are most grateful to the about 300 reviewers for their help in the refereeing process The Editors thank Ms G Bijleveld and Ms 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 Nonlinear and Robust Control of PDE Systems Panagiotis D. Christofides, 2012-12-06 The interest in control of nonlinear partial differential equation PDE sys tems has been triggered by the need to achieve tight distributed control of transport reaction processes that exhibit highly nonlinear behavior and strong spatial variations Drawing from recent advances in dynamics of PDE systems and nonlinear control theory control of nonlinear PDEs has evolved into a very active research area of systems and control This book the first of its kind presents general methods for the synthesis of nonlinear and robust feedback controllers for broad classes of nonlinear PDE sys tems and illustrates their applications to transport reaction processes of industrial interest Specifically our attention focuses on quasi linear hyperbolic and parabolic PDE systems for which the manipulated inputs and measured and controlled outputs are distributed in space and bounded We use geometric and Lyapunov based control techniques to synthesize nonlinear and robust controllers that use a finite number of measurement sensors and control actuators to achieve stabilization of the closed loop system output track ing and attenuation of the effect of model uncertainty The controllers are successfully applied to numerous convection reaction and diffusion reaction processes including a rapid thermal chemical vapor deposition reactor and a Czochralski crystal growth process The book includes comparisons of the proposed nonlinear and robust control methods with other approaches and discussions of Control and Inverse Problems Kaïs Ammari, Chaker Jammazi, Faouzi Triki, 2023-09-26 practical implementation issues This volume presents a timely overview of control theory and inverse problems and highlights recent advances in these active research areas The chapters are based on talks given at the spring school Control Inverse Problems held in Monastir Tunisia in May 2022 In addition to providing a snapshot of these two areas chapters also highlight breakthroughs on more specific topics such as Controllability of dynamical systems Information transfer in multiplier equations Nonparametric instrumental regression Control of chained systems The damped wave equation Control and Inverse Problems will be a valuable resource

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