

Adaptive Control of Parabolic PDEs

Andrey Smyshlyaev & Miroslav Krstic

Adaptive Control Of Parabolic Pdes

William S. Levine



Adaptive Control Of Parabolic Pdes:

Adaptive Control of Parabolic PDEs Andrey Smyshlyaev, Miroslav Krstic, 2010-07-01 This book introduces a comprehensive methodology for adaptive control design of parabolic partial differential equations with unknown functional parameters including reaction convection diffusion systems ubiquitous in chemical thermal biomedical aerospace and energy systems Andrey Smyshlyaev and Miroslav Krstic develop explicit feedback laws that do not require real time solution of Riccati or other algebraic operator valued equations The book emphasizes stabilization by boundary control and using boundary sensing for unstable PDE systems with an infinite relative degree The book also presents a rich collection of methods for system identification of PDEs methods that employ Lyapunov passivity observer based swapping based gradient and least squares tools and parameterizations among others Including a wealth of stimulating ideas and providing the mathematical and control systems background needed to follow the designs and proofs the book will be of great use to students and researchers in mathematics engineering and physics It also makes a valuable supplemental text for graduate courses on distributed parameter systems and adaptive control

Adaptive Control of Hyperbolic PDEs Henrik Anfinssen, Ole Morten Aamo, 2019-02-21 Adaptive Control of Linear Hyperbolic PDEs provides a comprehensive treatment of adaptive control of linear hyperbolic systems using the backstepping method It develops adaptive control strategies for different combinations of measurements and actuators as well as for a range of different combinations of parameter uncertainty The book treats boundary control of systems of hyperbolic partial differential equations PDEs with uncertain parameters The authors develop designs for single equations as well as any number of coupled equations The designs are accompanied by mathematical proofs which allow the reader to gain insight into the technical challenges associated with adaptive control of hyperbolic PDEs and to get an overview of problems that are still open for further research Although stabilization of unstable systems by boundary control and boundary sensing are the particular focus state feedback designs are also presented The book also includes simulation examples with implementational details and graphical displays to give readers an insight into the performance of the proposed control algorithms as well as the computational details involved A library of MATLAB code supplies ready to use implementations of the control and estimation algorithms developed in the book allowing readers to tailor controllers for cases of their particular interest with little effort These implementations can be used for many different applications including pipe flows traffic flow electrical power lines and more Adaptive Control of Linear Hyperbolic PDEs is of value to researchers and practitioners in applied mathematics engineering and physics it contains a rich set of adaptive control designs including mathematical proofs and simulation demonstrations The book is also of interest to students looking to expand their knowledge of hyperbolic PDEs

Traffic Congestion Control by PDE Backstepping Huan Yu, Miroslav Krstic, 2022-12-16 This monograph explores the design of controllers that suppress oscillations and instabilities in congested traffic flow using PDE backstepping methods The first part of the text is concerned with basic backstepping control of

freeway traffic using the Aw Rascle Zhang ARZ second order PDE model It begins by illustrating a basic control problem suppressing traffic with stop and go oscillations downstream of ramp metering before turning to the more challenging case for traffic upstream of ramp metering The authors demonstrate how to design state observers for the purpose of stabilization using output feedback control Experimental traffic data are then used to calibrate the ARZ model and validate the boundary observer design Because large uncertainties may arise in traffic models adaptive control and reinforcement learning methods are also explored in detail Part II then extends the conventional ARZ model utilized until this point in order to address more complex traffic conditions multi lane traffic multi class traffic networks of freeway segments and driver use of routing apps The final chapters demonstrate the use of the Lighthill Whitham Richards LWR first order PDE model to regulate congestion in traffic flows and to optimize flow through a bottleneck In order to make the text self contained an introduction to the PDE backstepping method for systems of coupled first order hyperbolic PDEs is included Traffic Congestion Control by PDE Backstepping is ideal for control theorists working on control of systems modeled by PDEs and for traffic engineers and applied scientists working on unsteady traffic flows It will also be a valuable resource for researchers interested in boundary control of coupled systems of first order hyperbolic PDEs 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

The Control Handbook (three volume set) William S. Levine, 2018-10-08 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 brilliantly organizes cutting edge contributions from more than 200 leading experts representing every corner of the globe They cover everything from basic closed loop systems to multi agent adaptive systems and from the control of electric motors to the control of complex networks Progressively organized the three volume set includes Control System Fundamentals Control System Applications Control System Advanced Methods Any practicing engineer student or researcher working in fields as diverse as electronics aeronautics or biomedicine will find this handbook to be a time saving resource filled with invaluable formulas models methods and innovative thinking In fact any physicist biologist mathematician or researcher in any number of fields developing or improving products and systems will find the answers and ideas they need 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

PDE Control of String-Actuated Motion Ji Wang, Miroslav Krstic, 2022-10-25 New adaptive and event triggered control designs with concrete applications in undersea construction offshore drilling and cable elevators Control applications in undersea construction cable elevators and offshore drilling present major methodological challenges because they involve PDE systems cables and drillstrings of time varying length coupled with ODE systems the attached loads or tools that usually have unknown parameters and unmeasured states In PDE Control of String Actuated Motion Ji Wang and Miroslav Krstic develop control algorithms for these complex PDE ODE systems evolving on time varying domains Motivated by physical systems the book's algorithms are designed to operate with rigorous mathematical guarantees in the presence of real world challenges such as unknown parameters unmeasured distributed states environmental disturbances delays and event triggered implementations The book leverages the power of the PDE backstepping approach and expands its scope in many directions Filled with theoretical innovations and comprehensive in its coverage PDE Control of String Actuated Motion provides new design tools and mathematical techniques with far reaching potential in adaptive control delay systems and event triggered control

Dynamics and Control of Mechanical Systems in Offshore Engineering Wei He, Shuzhi Sam Ge, Bernard Voon Ee How, Yoo Sang Choo, 2013-10-02 Dynamics and Control of Mechanical Systems in Offshore Engineering is a comprehensive treatment of marine mechanical systems MMS involved in processes of great importance such as oil drilling and mineral recovery Ranging from nonlinear dynamic modeling and stability analysis of flexible riser systems through advanced control design for an installation system with a single rigid payload attached by thrusters to robust adaptive control for mooring systems it is an authoritative reference on the dynamics and control of MMS Readers will gain not only a complete picture of MMS at the system level but also a better understanding of the technical considerations involved and solutions to problems that commonly arise from dealing with them The text provides a complete framework of dynamical analysis and control design for marine mechanical systems new results on the dynamical analysis of riser mooring

and installation systems together with a general modeling method for a class of MMS a general method and strategy for realizing the control objectives of marine systems with guaranteed stability the effectiveness of which is illustrated by extensive numerical simulation and approximation based control schemes using neural networks for installation of subsea structures with attached thrusters in the presence of time varying environmental disturbances and parametric uncertainties Most of the results presented are analytical with repeatable design algorithms with proven closed loop stability and performance analysis of the proposed controllers is rigorous and detailed Dynamics and Control of Mechanical Systems in Offshore Engineering is primarily intended for researchers and engineers in the system and control community but graduate students studying control and marine engineering will also find it a useful resource as will practitioners working on the design running or maintenance of offshore platforms

Boundary Control of Parabolic PDE Using Adaptive Dynamic Programming Behzad Talaei, 2016 In this dissertation novel adaptive approximate dynamic programming ADP based state and output feedback control methods are presented for distributed parameter systems DPS which are expressed as uncertain parabolic partial differential equations PDEs in one and two dimensional domains In the first step the output feedback control design using an early lumping method is introduced after model reduction Subsequently controllers were developed in four stages Unlike current approaches in the literature state and output feedback approaches were designed without utilizing model reduction for uncertain linear coupled nonlinear and two dimensional parabolic PDEs respectively In all of these techniques the infinite horizon cost function was considered and controller design was obtained in a forward in time and online manner without solving the algebraic Riccati equation ARE or using value and policy iterations techniques Providing the stability analysis in the original infinite dimensional domain was a major challenge Using Lyapunov criterion the ultimate boundedness UB result was demonstrated for the regulation of closed loop system using all the techniques developed herein Moreover due to distributed and large scale nature of state space pure state feedback control design for DPS has proven to be practically obsolete Therefore output feedback design using limited point sensors in the domain or at boundaries are introduced In the final two papers the developed state feedback ADP control method was extended to regulate multi dimensional and more complicated nonlinear parabolic PDE dynamics Abstract page iv

Delay

Compensation for Nonlinear, Adaptive, and PDE Systems Miroslav Krstic, 2010-01-23 Some of the most common dynamic phenomena that arise in engineering practice actuator and sensor delays fall outside the scope of standard finite dimensional system theory The first attempt at infinite dimensional feedback design in the field of control systems the Smith predictor has remained limited to linear finite dimensional plants over the last five decades Shedding light on new opportunities in predictor feedback this book significantly broadens the set of techniques available to a mathematician or engineer working on delay systems The book is a collection of tools and techniques that make predictor feedback ideas applicable to nonlinear systems systems modeled by PDEs systems with highly uncertain or completely unknown input output

delays and systems whose actuator or sensor dynamics are modeled by more general hyperbolic or parabolic PDEs rather than by pure delay Numerous examples and a detailed treatment of individual classes of problems will help the reader master the techniques Delay Compensation for Nonlinear Adaptive and PDE Systems is an excellent reference guide for graduate students researchers and professionals in mathematics systems control as well as chemical mechanical electrical computer aerospace and civil structural engineering Parts of the book may be used in graduate courses on general distributed parameter systems linear delay systems PDEs nonlinear control state estimator and observers adaptive control robust control or linear time varying systems

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

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