

Systems & Control: Foundations and Applications

Miroslav Krstic

Delay Compensation for Nonlinear, Adaptive, and PDE Systems



Delay Compensation For Nonlinear Adaptive And Pde Systems Systems Control Foundations Applications

Qingbin Gao, Hamid Reza Karimi



Delay Compensation For Nonlinear Adaptive And Pde Systems Systems Control Foundations Applications:

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 *Stability and Stabilization of Nonlinear Systems* Iasson Karafyllis, Zhong-Ping

Jiang, 2011-04-02 Recently the subject of nonlinear control systems analysis has grown rapidly and this book provides a simple and self contained presentation of their stability and feedback stabilization which enables the reader to learn and understand major techniques used in mathematical control theory In particular the important techniques of proving global stability properties are presented closely linked with corresponding methods of nonlinear feedback stabilization a general framework of methods for proving stability is given thus allowing the study of a wide class of nonlinear systems including finite dimensional systems described by ordinary differential equations discrete time systems systems with delays and sampled data systems approaches to the proof of classical global stability properties are extended to non classical global stability properties such as non uniform in time stability and input to output stability and new tools for stability analysis and control design of a wide class of nonlinear systems are introduced The presentational emphasis of *Stability and Stabilization of Nonlinear Systems* is theoretical but the theory s importance for concrete control problems is highlighted with a chapter specifically dedicated to applications and with numerous illustrative examples Researchers working on nonlinear control theory will find this monograph of interest while graduate students of systems and control can also gain much insight and assistance from the methods and proofs detailed in this book **Nonlinear Time-Delay Systems** Claudia Califano, Claude

H. Moog, 2021-05-30 This brief focuses on the structural properties of nonlinear time delay systems It provides a link between coverage of fundamental theoretical properties and advanced control algorithms as well as suggesting a path for the

generalization of the differential geometric approach to time delay systems The brief begins with an introduction to a class of single input nonlinear time delay systems It then focuses on geometric methods treating them and offers a geometric framework for integrability The book has chapters dedicated to the accessibility and observability of nonlinear time delay systems allowing readers to understand the systems in a well ordered structured way Finally the brief concludes with applications of integrability and the control of single input time delay systems This brief employs exercises and examples to familiarize readers with the time delay context It is of interest to researchers engineers and postgraduate students who work in the area of nonlinear control systems

Analysis and Control of Oilwell Drilling Vibrations Martha Belem Saldivar Márquez, Islam Boussaada, Hugues Mounier, Silviu-Iulian Niculescu, 2015-03-09 This book reports the results of exhaustive research work on modeling and control of vertical oil well drilling systems It is focused on the analysis of the system dynamic response and the elimination of the most damaging drill string vibration modes affecting overall perforation performance stick slip torsional vibration and bit bounce axial vibration The text is organized in three parts The first part Modeling presents lumped and distributed parameter models that allow the dynamic behavior of the drill string to be characterized a comprehensive mathematical model taking into account mechanical and electric components of the overall drilling system is also provided The distributed nature of the system is accommodated by considering a system of wave equations subject to nonlinear boundary conditions this model is transformed into a pair of neutral type time delay equations which can overcome the complexity involved in the analysis and simulation of the partial differential equation model The second part Analysis is devoted to the study of the response of the system described by the time delay model important properties useful for analyzing system stability are investigated and frequency and time domain techniques are reviewed Part III Control concerns the design of stabilizing control laws aimed at eliminating undesirable drilling vibrations diverse control techniques based on infinite dimensional system representations are designed and evaluated The control proposals are shown to be effective in suppressing stick slip and bit bounce so that a considerable improvement of the overall drilling performance can be achieved This self contained book provides operational guidelines to avoid drilling vibrations Furthermore since the modeling and control techniques presented here can be generalized to treat diverse engineering problems it constitutes a useful resource to researchers working on control and its engineering application in oil well drilling

Control Strategy for Time-Delay Systems Mohammad-Hassan Khooban, Tomislav Dragicevic, 2020-11-27 Since delays are present in 99% of industrial processes Control Strategy for Time delay Systems covers all the important features of real world practical applications which will be valuable to practicing engineers and specialists The book presents the views of the editors on promising research directions and future industrial applications in this area Although the fundamentals of time delay systems are discussed the book focuses on the advanced modelling and control of such systems and will provide the analysis and test or simulation results of nearly every technique described in the book For this purpose highly complex models are introduced to

describe the mentioned new applications which are characterized by time varying delays with intermittent and stochastic nature several types of nonlinearities and the presence of different time scales Researchers practitioners and PhD students will gain insights into the prevailing trends in design and operation of real time control systems reviewing the shortcomings and future developments concerning the practical system issues such as standardization protection and design

Predictor Feedback for Delay Systems: Implementations and Approximations Iasson Karafyllis, Miroslav Krstic, 2017-03-06 This monograph bridges the gap between the nonlinear predictor as a concept and as a practical tool presenting a complete theory of the application of predictor feedback to time invariant uncertain systems with constant input delays and or measurement delays It supplies several methods for generating the necessary real time solutions to the systems nonlinear differential equations which the authors refer to as approximate predictors Predictor feedback for linear time invariant LTI systems is presented in Part I to provide a solid foundation on the necessary concepts as LTI systems pose fewer technical difficulties than nonlinear systems Part II extends all of the concepts to nonlinear time invariant systems Finally Part III explores extensions of predictor feedback to systems described by integral delay equations and to discrete time systems The book s core is the design of control and observer algorithms with which global stabilization guaranteed in the previous literature with idealized but non implementable predictors is preserved with approximate predictors developed in the book An applications driven engineer will find a large number of explicit formulae which are given throughout the book to assist in the application of the theory to a variety of control problems A mathematician will find sophisticated new proof techniques which are developed for the purpose of providing global stability guarantees for the nonlinear infinite dimensional delay system under feedback laws employing practically implementable approximate predictors Researchers working on global stabilization problems for time delay systems will find this monograph to be a helpful summary of the state of the art while graduate students in the broad field of systems and control will advance their skills in nonlinear control design and the analysis of nonlinear delay 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

Stability, Control and Application of Time-Delay Systems Qingbin Gao, Hamid Reza Karimi, 2019-06-27 Stability Control and Application of Time Delay Systems gives a systematic description of these systems It includes adequate designs of integrated modeling and control and frequency characterizations Common themes revolve around creating certain synergies of modeling analysis

control computing and applications of time delay systems that achieve robust stability while retaining desired performance quality The book provides innovative insights into the state of the art of time delay systems in both theory and practical aspects It has been edited with an emphasis on presenting constructive theoretical and practical methodological approaches and techniques Unifies existing and emerging concepts concerning time delay dynamical systems Provides a series of the latest results in large delay analysis and multi agent and thermal systems with delays Gives in each chapter numerical and simulation results in order to reflect the engineering practice

Delays and Interconnections: Methodology, Algorithms and Applications Giorgio Valmorbida,Alexandre Seuret,Islam Boussaada,Rifat Sipahi,2019-10-02 This book contains advances on the theory and applications of time delay systems with particular focus on interconnected systems The methods for stability analysis and control design are based on time domain and frequency domain approaches for continuous time and sampled data systems linear and nonlinear systems This volume is a valuable source of reference for control practitioners graduate students and scientists researching practical as well as theoretical solutions to a variety of control problems inevitably influenced by the presence of time delays The contents are organized in three parts Interconnected Systems analysis Modeling and and Analysis for Delay systems and Stabilization and Control Strategies for Delay Systems This volume presents a selection of 19 contributions presented in the 4th DelSys Workshop which took place in Gif sur Yvette France November 25 27 2015

Advanced Discrete-Time Control Khalid Abidi,Jian-Xin Xu,2015-03-25 This book covers a wide spectrum of systems such as linear and nonlinear multivariable systems as well as control problems such as disturbance uncertainty and time delays The purpose of this book is to provide researchers and practitioners a manual for the design and application of advanced discrete time controllers The book presents six different control approaches depending on the type of system and control problem The first and second approaches are based on Sliding Mode control SMC theory and are intended for linear systems with exogenous disturbances The third and fourth approaches are based on adaptive control theory and are aimed at linear nonlinear systems with periodically varying parametric uncertainty or systems with input delay The fifth approach is based on Iterative learning control ILC theory and is aimed at uncertain linear nonlinear systems with repeatable tasks and the final approach is based on fuzzy logic control FLC and is intended for highly uncertain systems with heuristic control knowledge Detailed numerical examples are provided in each chapter to illustrate the design procedure for each control method A number of practical control applications are also presented to show the problem solving process and effectiveness with the advanced discrete time control approaches introduced in this book

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