

Systems & Control: Foundations & Applications

Marc A. Peters
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Minimum Entropy Control for Time-Varying Systems



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Marc A. Peters, Pablo Iglesias



Minimum Entropy Control For Time Varying Systems:

Minimum Entropy Control for Time-Varying Systems Marc A. Peters, Pablo A. Iglesias, 1997-05-15 This book takes the topic of H_∞ control as a point of departure and pursues an improved controller design suggested in the mainstream of robust control Using stochastic methods the book is important to the circuits and systems community alongside researchers in networking systems operator theory and linear multivariable control

Minimum Entropy Control for Time-Varying Systems Marc A. Peters, Pablo Iglesias, 2012-12-06 One of the main goals of optimal control theory is to provide a theoretical basis for choosing an appropriate controller for whatever system is under consideration by the researcher or engineer Two popular norms that have proved useful are known as H_2 and H_∞ control The first has been particularly applicable to problems arising in the aerospace industry However most industrial problems are badly modeled and the second norm proved to be more appropriate when the actual conditions of the problem did not conform to the stipulated conditions of the theory This book takes the topic of H_∞ control as a point of departure and pursues an improved controller design which has been suggested in the mainstream of robust control Its main theme minimum entropy control provides a means of trading off some of the features of other control problems The book is aimed at research workers in networking systems as well as those in operator theory and linear multivariable control The use of stochastic methods makes the book also of importance to the circuits and systems community

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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

Robust Control Theory in Hilbert Space Avraham

Feintuch,2012-12-06 Motivation The latest texts on linear systems for engineering students have begun incorporating chapters on robust control using the state space approach to HOC control for linear finite dimensional time invariant systems While the pedagogical and computational advantages of this approach are not to be underestimated there are in my opinion some disadvantages Among these disadvantages is the narrow viewpoint that arises from the amputation of the finite dimensional time invariant case from the much more general theory that had been developed using frequency domain methods The frequency domain which occupied center stage for most of the developments of HOC control theory presents a natural context for analysis and controller synthesis for time invariant linear systems whether of finite or infinite dimensions A fundamental role was played in this theory by operator theoretic methods especially the theory of Toeplitz and skew Toeplitz operators The recent lecture notes of Foias Ozbay and Tannenbaum [3] display the power of this theory by constructing robust controllers for the problem of a flexible beam Although controller synthesis depends heavily on the special computational advantages of time invariant systems and the relationship between HOC optimization and classical interpolation methods it turns out that the analysis is possible without the assumption that the systems are time invariant

CONTROL SYSTEMS, ROBOTICS AND AUTOMATION - Volume VIII Heinz D. Unbehauen,2009-10-11 This Encyclopedia of Control Systems Robotics and Automation is a component of the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias This 22 volume set contains 240 chapters each of size 5000 30000 words with perspectives applications and extensive illustrations It is the only publication of its kind carrying state of the art knowledge in the fields of Control Systems Robotics and Automation and is aimed by virtue of the several applications at the following five major target audiences University and College Students Educators Professional Practitioners Research Personnel and Policy Analysts Managers and Decision Makers and NGOs **Model Identification and Adaptive Control**

Graham Goodwin,2012-12-06 This book is based on a workshop entitled Model Identification and Adaptive Control From Windsurfing to Telecommunications held in Sydney Australia on December 16 2000 The workshop was organized in honour of Professor Brian D.O. Anderson in recognition of his seminal contributions to systems science over the past 4 decades The chapters in the book have been written by colleagues friends and students of Brian Anderson A central theme of the book is the interrelationship between identification and the use of models in real world applications This theme has underpinned much of Brian Anderson's own contributions The book reflects on these contributions as well as making important statements about possible future research directions The subtitle of the book From Windsurfing to Telecommunications recognizes the fact that many common life experiences such as those we encounter when learning to ride a windsurfer are models for design methods that can be used on real world advanced technological control problems In deed Brian Anderson extensively explored this link in his research work **Nonlinear and Robust Control of PDE Systems** Panagiotis D.

Christofides,2012-12-06 The interest in control of nonlinear partial differential equation PDE systems 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 systems 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 tracking 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 practical implementation issues

Proceedings of the ... Conference on Information Sciences and Systems, 1996 Systems and Control in the Twenty-First Century

Christopher I. Byrnes, Biswa N. Datta, Clyde F. Martin, 1997-02-01 The mathematical theory of networks and systems has a long and rich history with antecedents in circuit synthesis and the analysis design and synthesis of actuators sensors and active elements in both electrical and mechanical systems Fundamental paradigms such as the state space realization of an input output system or the use of feedback to prescribe the behavior of a closed loop system have proved to be as resilient to change as were the practitioners who used them This volume celebrates the resiliency to change of the fundamental concepts underlying the mathematical theory of networks and systems The articles presented here are among those presented as plenary addresses invited addresses and minisymposia presented at the 12th International Symposium on the Mathematical Theory of Networks and Systems held in St Louis Missouri from June 24-28 1996 Incorporating models and methods drawn from biology computing materials science and mathematics these articles have been written by leading researchers who are on the vanguard of the development of systems control and estimation for the next century as evidenced by the application of new methodologies in distributed parameter systems linear nonlinear systems and stochastic systems for solving problems in areas such as aircraft design circuit simulation imaging speech synthesis and visionics

Periodic Systems Sergio Bittanti, Patrizio Colaneri, 2009 This book offers a comprehensive treatment of the theory of periodic systems including the problems of filtering and control It covers an array of topics presenting an overview of the field and focusing on discrete time signals and systems

Advances in Control, Communication Networks, and Transportation Systems Eyad H. Abed, Pravin Pratap Varaiya, 2005-07-15 A collection of invited articles on topics presented at the Symposium on Systems Control and Networks held in June 5-7 2005 in honor of Pravin Varaiya on his 65th birthday The chapters include results and

surveys by experts on various topics including hybrid systems and applications wireless and sensor networks and systems education

Continuous-Time Systems Yuriy Shmaliy, 2007-09-23 Continuous Time Systems is a description of linear nonlinear time invariant and time varying electronic continuous time systems As an assemblage of physical or mathematical components organized and interacting to convert an input signal also called excitation signal or driving force to an output signal also called response signal an electronic system can be described using different methods offered by the modern systems theory To make possible for readers to understand systems the book systematically covers major foundations of the systems theory First the quantitative and qualitative methods of systems description are presented along with the stability analysis The representation of linear time invariant systems in the time domain is provided using the convolution ordinarily differential equations ODEs and state space In the frequency domain these systems are analyzed using the Fourier and Laplace transforms The linear time varying systems are represented using the general convolution ODEs and state space The nonlinear time invariant systems are described employing the Taylor and Volterra series expansions ODEs state space and approximate methods such as averaging equivalent linearization and describing function Finally the representation of nonlinear time varying systems is given using the Taylor and Volterra series ODEs modulation functions method and state space modelling Review of matrix theory and other useful generalizations are postponed to Appendices

Recent Advances in Robust Control Andreas Müller, 2011-11-21 Robust control has been a topic of active research in the last three decades culminating in H_2 H_∞ and μ design methods followed by research on parametric robustness initially motivated by Kharitonov's theorem the extension to non linear time delay systems and other more recent methods The two volumes of Recent Advances in Robust Control give a selective overview of recent theoretical developments and present selected application examples The volumes comprise 39 contributions covering various theoretical aspects as well as different application areas The first volume covers selected problems in the theory of robust control and its application to robotic and electromechanical systems The second volume is dedicated to special topics in robust control and problem specific solutions Recent Advances in Robust Control will be a valuable reference for those interested in the recent theoretical advances and for researchers working in the broad field of robotics and mechatronics

Max-Plus Methods for Nonlinear Control and Estimation William M. McEneaney, 2006-07-25 The central focus of this book is the control of continuous time continuous space nonlinear systems Using new techniques that employ the max plus algebra the author addresses several classes of nonlinear control problems including nonlinear optimal control problems and nonlinear robust H_∞ control and estimation problems Several numerical techniques are employed including a max plus eigenvector approach and an approach that avoids the curse of dimensionality The max plus based methods examined in this work belong to an entirely new class of numerical methods for the solution of nonlinear control problems and their associated Hamilton Jacobi Bellman HJB PDEs these methods are not equivalent to either of the more commonly used finite element or characteristic approaches Max Plus

Methods for Nonlinear Control and Estimation will be of interest to applied mathematicians engineers and graduate students interested in the control of nonlinear systems through the implementation of recently developed numerical methods

Stochastic Distribution Control System Design Lei Guo,Hong Wang,2010-05-13 A recent development in SDC related problems is the establishment of intelligent SDC models and the intensive use of LMI based convex optimization methods Within this theoretical framework control parameter determination can be designed and stability and robustness of closed loop systems can be analyzed This book describes the new framework of SDC system design and provides a comprehensive description of the modelling of controller design tools and their real time implementation It starts with a review of current research on SDC and moves on to some basic techniques for modelling and controller design of SDC systems This is followed by a description of controller design for fixed control structure SDC systems PDF control for general input and output represented systems filtering designs and fault detection and diagnosis FDD for SDC systems Many new LMI techniques being developed for SDC systems are shown to have independent theoretical significance for robust control and FDD problems

Communication-Protocol-Based Filtering and Control of Networked Systems Lei Zou,Zidong Wang,Jinling Liang,2022-05-03 Communication Protocol Based Filtering and Control of Networked Systems is a self contained treatment of the state of the art in communication protocol based filtering and control recent advances in networked systems and the potential for application in sensor networks This book provides new concepts new models and new methodologies with practical significance in control engineering and signal processing The book first establishes signal transmission models subject to different communication protocols and then develops new filter design techniques based on those models and preset requirements for filtering performance The authors then extend this work to finite horizon H infinity control ultimately bounded control and finite horizon consensus control The focus throughout is on three typical communications protocols the round robin random access and try once and discard protocols and the systems studied are drawn from a variety of classes among them nonlinear systems time delayed and time varying systems multi agent systems and complex networks Readers are shown the latest techniques recursive linear matrix inequalities backward recursive difference equations stochastic analysis and mapping methods The unified framework for communication protocol based filtering and control for different networked systems established in the book will be of interest to academic researchers and practicing engineers working with communications and other signal processing systems Senior undergraduate and graduate students looking to increase their knowledge of current methods in control and signal processing of networked systems will also find this book valuable

Advances in Statistical Control, Algebraic Systems Theory, and Dynamic Systems Characteristics Chang-Hee Won,Cheryl B. Schrader,Anthony N. Michel,2010-07-08 Life has many surprises One of the best surprises is meeting a caring mentor an encouraging collaborator or an enthusiastic friend This volume is a tribute to Professor Michael K Sain who is such a teacher colleague and friend On the beautiful fall day of October 27 2007 friends families colleagues and former students gathered at a

workshop held in Notre Dame Indiana This workshop brought together many people whose lives have been touched by Mike to celebrate his milestone 70th birthday and to congratulate him on his contributions in the fields of systems controls and control Mike was born on March 22 1937 in St Louis Missouri After obtaining his B S E E and M S E E at St Louis University he went on to study at the University of Illinois at Urbana Champaign for his doctoral degree With his Ph D degree complete he came to the University of Notre Dame in 1965 as an assistant professor He became an associate professor in 1968 a full professor in 1972 and the Frank M Freimann Chair in Electrical Engineering in 1982 He has remained at and loved the University of Notre Dame for over 40 years Mike also held a number of consulting jobs throughout his career Most notably he consulted with the Energy Controls Division of Allied Bendix Aerospace from 1976 to 1988 and the North American Operations branch of the Research and Development Laboratory of General Motors Corporation for a decade 1984 1994

Dynamical Systems, Control, Coding, Computer Vision Giorgio Picci, D.S. Gilliam, 2012-12-06 This book is a collection of essays devoted in part to new research directions in systems networks and control theory and in part to the growing interaction of these disciplines with new sectors of engineering and applied sciences like coding computer vision and hybrid systems These are new areas of rapid growth and of increasing importance in modern technology The essays written by world leading experts in the field reproduce and expand the plenary and minicourse/joint symposia invited lectures which were delivered at the Mathematical Theory of Networks and Systems Symposium MTNS 98 held in Padova Italy on July 6 10 1998 Systems control and networks theory has permeated the development of much of present day technology The impact has been visible in the past fifty years through the dramatic expansion and achievements of the aerospace and avionics industry through process control and factory automation robotics communication signals analysis and synthesis and more recently even finance to name just the most visible applications The theory has developed from the early phase of its history when the basic tools were elementary complex analysis Laplace transform and linear differential equations to present day where the mathematics ranges widely from functional analysis PDEs abstract algebra stochastic processes and differential geometry Irrespective of the particular tools however the basic unifying paradigms of feedback stability optimal control and recursive filtering have remained the bulk of the field and continue to be the basic motivation for the theory coming from the real world *Proceedings, IEEE Control Systems Society ... Symposium on Computer-Aided Control System Design (CACSD)*, 2002

Theory of Sensitivity in Dynamic Systems Mansour Eslami, 2013-11-09 This book provides a comprehensive treatment of the development and present state of the theory of sensitivity of dynamic systems It is intended as a textbook and reference for researchers and scientists in electrical engineering control and information theory as well as for mathematicians The extensive and structured bibliography provides an overview of the literature in the field and points out directions for further research

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