



应用非线性控制

Applied Nonlinear Control

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APPLIED
NONLINEAR
CONTROL

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Xiaoxin Liao,Pei Yu

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Control System Fundamentals William S. Levine, 2019-01-15 Sifting through the variety of control systems applications can be a chore. Diverse and numerous technologies inspire applications ranging from float valves to microprocessors. Relevant to any system you might use the highly adaptable Control System Fundamentals fills your need for a comprehensive treatment of the basic principles of control system engineering. This overview furnishes the underpinnings of modern control systems. Beginning with a review of the required mathematics major subsections cover digital control and modeling. An international panel of experts discusses the specification of control systems techniques for dealing with the most common and important control system nonlinearities and digital implementation of control systems with complete references. This framework yields a primary resource that is also capable of directing you to more detailed articles and books. This self-contained reference explores the universal aspects of control that you need for any application. Reliable, up to date and versatile Control System Fundamentals answers your basic control systems questions and acts as an ideal starting point for approaching any control problem.

The Control Handbook William S. Levine, 1996-02-23 This is the biggest, most comprehensive and most prestigious compilation of articles on control systems imaginable. Every aspect of control is expertly covered from the mathematical foundations to applications in robot and manipulator control. Never before has such a massive amount of authoritative, detailed, accurate and well-organized information been available in a single volume. Absolutely everyone working in any aspect of systems and controls must have this book.

Control Theory and Advanced Technology, 1995 **Advanced Control of Chemical Processes 1997 (ADCHEM'97)** Sirish L. Shah, Y. Arkun, 1997

Paperback Advanced Control of Chemical Processes 1997 was an international event. It attracted a total of 205 participants from industry and academia around the world. Over 100 papers were presented at this symposium including 3 plenary addresses and 6 keynote talks. The main themes included process monitoring, pulp and paper process control model predictive control and modelling and simulation.

Applied Nonlinear Control Jean-Jacques E. Slotine, Weiping Li, 1991 Nonlinear systems analysis. Phase plane analysis. Fundamentals of Lyapunov theory. Advanced stability theory. Describing function analysis. Nonlinear control systems design. Feedback linearization. Sliding control. Adaptive control. Control of multi-input physical systems.

The British National Bibliography Arthur James Wells, 1996 Books In Print 2004-2005 Ed Bowker Staff, Staff Bowker, Ed, 2004 **Books in Print**, 1977 *International Aerospace Abstracts*, 1993 **Max-Plus**

Methods for Nonlinear Control and Estimation William M. McEneaney, 2006 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. Well known dynamic programming arguments show there

is a direct relationship between the solution of a control problem and the solution of a corresponding Hamilton Jacobi Bellman HJB partial differential equation PDE The max plus based methods examined in this monograph belong to an entirely new class of numerical methods for the solution of nonlinear control problems and their associated HJB PDEs they are not equivalent to either of the more commonly used finite element or characteristic approaches The potential advantages of the max plus based approaches lie in the fact that solution operators for nonlinear HJB problems are linear over the max plus algebra and this linearity is exploited in the construction of algorithms The book 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 Researchers and practitioners tangentially interested in this area will also find a readable concise discussion of the subject through a careful selection of specific chapters and sections Basic knowledge of control theory for systems with dynamics governed by differential equations is required

Stabilization and Regulation of Nonlinear Systems Zhiyong Chen,Jie Huang,2014-08-30 The core of this textbook is a systematic and self contained treatment of the nonlinear stabilization and output regulation problems Its coverage embraces both fundamental concepts and advanced research outcomes and includes many numerical and practical examples Several classes of important uncertain nonlinear systems are discussed The state of the art solution presented uses robust and adaptive control design ideas in an integrated approach which demonstrates connections between global stabilization and global output regulation allowing both to be treated as stabilization problems Stabilization and Regulation of Nonlinear Systems takes advantage of rich new results to give students up to date instruction in the central design problems of nonlinear control problems which are a driving force behind the furtherance of modern control theory and its application The diversity of systems in which stabilization and output regulation become significant concerns in the mathematical formulation of practical control solutions whether in disturbance rejection in flying vehicles or synchronization of Lorenz systems with harmonic systems makes the text relevant to readers from a wide variety of backgrounds Many exercises are provided to facilitate study and solutions are freely available to instructors via a download from springerextras.com Striking a balance between rigorous mathematical treatment and engineering practicality Stabilization and Regulation of Nonlinear Systems is an ideal text for graduate students from many engineering and applied mathematical disciplines seeking a contemporary course in nonlinear control Practitioners and academic theorists will also find this book a useful reference on recent thinking in this field

Applied nonlinear control : possibilities and limitations Thomas Vesterholm,1995 **Nonlinear Control Systems II** Alberto Isidori,2012-12-06

The purpose of this book is to present a self contained and coordinated description of several design methods for nonlinear control systems with special emphasis on the problem of achieving stability globally or on arbitrarily large domains in the presence of model uncertainties The book is intended to be a continuation of my earlier book Nonlinear Control Systems dealing with the fundamentals of the theory of nonlinear control systems whose third edition was published in 1995 In this

respect it is written in the form of a second volume of a single work and uses a numbering system that continues the one adopted in the earlier book with which the overlap is essentially insignificant The book is intended as a graduate text as well as a reference to scientists and engineers interested in the design of feedback laws for nonlinear control systems In the last decade methods for global stabilization of nonlinear systems have experienced a vigorous growth

Nonlinear and

Optimal Control Systems Thomas L. Vincent,Walter J. Grantham,1997-06-23 Designed for one semester introductory senior or graduate level course the authors provide the student with an introduction of analysis techniques used in the design of nonlinear and optimal feedback control systems There is special emphasis on the fundamental topics of stability controllability and optimality and on the corresponding geometry associated with these topics Each chapter contains several examples and a variety of exercises

Nonlinear Control Systems Alberto Isidori,2013-04-17 The purpose of this book is to present a self contained description of the fundamentals of the theory of nonlinear control systems with special emphasis on the differential geometric approach The book is intended as a graduate text as well as a reference to scientists and engineers involved in the analysis and design of feedback systems The first version of this book was written in 1983 while I was teaching at the Department of Systems Science and Mathematics at Washington University in St Louis This new edition integrates my subsequent teaching experience gained at the University of Illinois in Urbana Champaign in 1987 at the Carl Cranz Gesellschaft in Oberpfaffenhofen in 1987 at the University of California in Berkeley in 1988 In addition to a major rearrangement of the last two Chapters of the first version this new edition incorporates two additional Chapters at a more elementary level and an exposition of some relevant research findings which have occurred since 1985

Nonlinear Control in the Year 2000 Alberto Isidori,Francoise Lamnabhi-Lagarrigue,Witold Respondek,2000-11-17 Control of nonlinear systems one of the most active research areas in control theory has always been a domain of natural convergence of research interests in applied mathematics and control engineering The theory has developed from the early phase of its history when the basic tool was essentially only the Lyapunov second method to the present day where the mathematics ranges from differential geometry calculus of variations ordinary and partial differential equations functional analysis abstract algebra and stochastic processes while the applications to advanced engineering design span a wide variety of topics which include nonlinear controllability and observability optimal control state estimation stability and stabilization feedback equivalence motion planning noninteracting control disturbance attenuation asymptotic tracking The reader will find in the book methods and results which cover a wide variety of problems starting from pure mathematics like recent fundamental results on non analyticity of small balls and the distance function through its applications to all just mentioned topics of nonlinear control up to industrial applications of nonlinear control algorithms

Stable Adaptive Control and Estimation for Nonlinear Systems Jeffrey T. Spooner,Manfredi Maggiore,Raúl Ordóñez,Kevin M. Passino,2004-04-07 Includes a solution manual for problems Provides MATLAB code for examples and solutions Deals with robust systems in both theory and practice

Absolute Stability of Nonlinear Control Systems Xiaoxin Liao,Pei Yu,2008-07-16 Following the recent developments in the field of absolute stability Prof Xiaoxin Liao in conjunction with Prof Pei Yu has created a second edition of his seminal work on the subject Liao begins with an introduction to the Lurie problem and Lurie control system before moving on to the simple algebraic sufficient conditions for the absolute stability of autonomous and non autonomous ODE systems as well as several special classes of Lurie type systems The focus of the book then shifts toward the new results and research that have appeared in the decade since the first edition was published This book is aimed to be used by undergraduates in the areas of applied mathematics nonlinear control systems and chaos control and synchronisation but may also be useful as a reference for researchers and engineers The book is self contained though a basic knowledge of calculus linear system and matrix theory and ordinary differential equations is a prerequisite

Local Stabilizability of Nonlinear Control Systems

Andrea Bacciotti,1992 This is one of the first books presenting stabilizability of nonlinear systems in a well organized and detailed way the problem its motivation features and results Control systems defined by ordinary differential equations are dealt with Many worked examples have been included The main focus is on the mathematical aspects of the problem but some important applications are also described This book will be suitable as a textbook for advanced university courses and also as a tool for control theorists and researchers An extensive list of references is included

Nonlinear Control Systems Zoran Vukic,2003-02-04 This text emphasizes classical methods and presents essential analytical tools and strategies for the construction and development of improved design methods in nonlinear control It offers engineering procedures for the frequency domain as well as solved examples for clear understanding of control applications in the industrial electrical process manufacturing and automotive industries The authors discuss properties of nonlinear systems stability linearization methods operating modes and dynamic analysis methods phase trajectories in dynamic analysis of nonlinear systems and harmonic linearization in dynamic analysis of nonlinear control systems operating in stabilization mode

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