

DYNAMICAL SYSTEMS

Nonlinear Dynamics and Control



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Nonlinear Dynamical Control Systems

**Felix L. Chernous'ko, I. M.
Ananievski, S. A. Reshmin**



Nonlinear Dynamical Control Systems:

Nonlinear Dynamical Control Systems Hendrik Nijmeijer, A. J. van der Schaft, 1990-04-06 This volume deals with controllability and observability properties of nonlinear systems as well as various ways to obtain input output representations The emphasis is on fundamental notions as controlled invariant distributions and submanifolds together with algorithms to compute the required feedbacks

Nonlinear Dynamical Control Systems Henk Nijmeijer, Arjan van der Schaft, 2013-03-14 This book has recently been retypeset in LaTeX for clearer presentation This textbook on the differential geometric approach to nonlinear control grew out of a set of lecture notes which were prepared for a course on nonlinear system theory given by us for the first time during the fall semester of 1988 The audience consisted mostly of graduate students taking part in the Dutch national Graduate Program on Systems and Control The course gives a general introduction to modern nonlinear control theory with an emphasis on the differential geometric approach as well as providing students specializing in nonlinear control theory with a firm starting point for doing research in this area One of the authors primary objectives is to give a self contained treatment of all the topics covered Although the amount of work published on nonlinear geometric control theory is expanding rapidly expanding the authors confine themselves to treating solid and clear cut achievements of modern nonlinear control which can be expected to be of remaining interest The final selection of topics reflects the authors own judgement of their importance

Nonlinear Dynamical Control Systems Henk Nijmeijer, Arjan van der Schaft, 1990

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Control of Nonlinear Dynamical Systems Felix L. Chernous'ko, I. M. Ananievski, S. A. Reshmin, 2008-09-26 This book is devoted to new methods of control for complex dynamical systems and deals with nonlinear control systems having several degrees of freedom subjected to unknown disturbances and containing uncertain parameters Various constraints are imposed on control inputs and state variables or their combinations The book contains an introduction to the theory of optimal control and the theory of stability of motion and also a description of some known methods based on these theories Major attention is given to new methods of control developed by the authors over the last 15 years Mechanical and electromechanical systems described by nonlinear Lagrange s equations are considered General methods are proposed for an effective construction of the required control often in an explicit form The book contains various techniques including the decomposition of nonlinear control systems with many degrees of freedom piecewise linear feedback control based on Lyapunov s functions methods which elaborate and extend the approaches of the conventional control theory optimal control differential games and the theory of stability The distinctive feature of the methods developed in the book is that the controls obtained satisfy the imposed constraints and steer the dynamical system to a prescribed terminal state in finite time Explicit upper estimates for the time of the process are given In all cases the control algorithms and the estimates obtained are strictly proven

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

Neural Network Engineering in Dynamic Control Systems Kenneth J. Hunt, George R. Irwin, Kevin Warwick, 2012-12-06 The series Advances in Industrial Control aims to report and encourage technology transfer in control engineering The rapid development of control technology impacts all areas of the control discipline New theory new controllers actuators sensors new industrial processes computer methods new applications new philosophies new challenges Much of this development work resides in industrial reports feasibility study papers and the reports of advanced collaborative projects The series offers an opportunity for researchers to present an extended exposition of such new work in all aspects of industrial control for wider and rapid dissemination Within the control community there has been much discussion of and interest in the new Emerging Technologies and Methods Neural networks along with Fuzzy Logic and Expert Systems is an emerging methodology which has the potential to contribute to the development of intelligent control technologies This volume of some thirteen chapters edited by Kenneth Hunt George Irwin and Kevin Warwick makes a useful contribution to the literature of neural network methods and applications The chapters are arranged systematically progressing from theoretical foundations through the training aspects of neural nets and concluding with four chapters of applications The applications include problems as diverse as oven temperature control and energy load forecasting routines We hope this interesting but balanced mix of material appeals to a wide range of readers from the theoretician to the industrial applications engineer

Control of Nonlinear Dynamical Systems Felix L. Chernous'ko, I. M. Ananievski, S. A. Reshmin, 2009-08-29 This book is devoted to new methods of control for complex dynamical systems and deals with nonlinear control systems having several degrees of freedom subjected to unknown disturbances and containing uncertain parameters Various constraints are imposed on control inputs and state variables or their combinations The book contains an introduction to the theory of optimal control and the theory of stability of motion and also a description of some known methods based on these theories Major attention is given to new methods of control developed by the authors over the last 15 years Mechanical and electromechanical systems described by nonlinear Lagrange's equations are considered General methods are proposed for an effective construction of the required control often in an explicit form The book contains various techniques including the decomposition of nonlinear control systems with many degrees of freedom piecewise linear feedback control based on Lyapunov's functions methods which elaborate and extend the approaches of the conventional control theory optimal control differential games and the theory of stability The distinctive feature of the methods developed in the book is that the controls obtained satisfy the imposed constraints and steer the dynamical system to a prescribed

terminal state in finite time Explicit upper estimates for the time of the process are given In all cases the control algorithms and the estimates obtained are strictly proven

Nichtlineare Systeme und Regelungen Jürgen Adamy, 2014-06-26

Dieses Lehrbuch gibt eine anschauliche Einführung in die Theorie und Anwendung nichtlinearer Regelungen Der Autor stellt die in Forschung und industrieller Anwendung immer wichtiger werdenden Verfahren der nichtlinearen Regelungen vor und erläutert die wesentlichen Merkmale sind die gute Verständlichkeit der Darstellung sowie die hervorragenden Abbildungen Die praktische Bedeutung der beschriebenen Regelungen wird anhand zahlreicher Beispiele illustriert Gegenüber der ersten Auflage ist die zweite bearbeitet und wesentlich erweitert Systemeigenschaften wie die Steuerbarkeit die Flachheit und die Passivität wurden hinzugenommen Neben der flachheitsbasierten und der passivitätsbasierten Regelung sind nun auch die exakte Linearisierung im MIMO Fall und die exakte Zustandslinearisierung Teil des Buches Entsprechend den hinzugekommenen Systemeigenschaften wurde der Titel von Nichtlineare Regelungen in Nichtlineare Systeme und Regelungen geändert Das Buch richtet sich sowohl an Studierende der Elektrotechnik Informationstechnik und des Maschinenbaus als auch an Ingenieure in der Industrie

The Dynamics of Control Fritz Colonius, Wolfgang

Kliemann, 2000-04-20 This new text reference is an excellent resource for the foundations and applications of control theory and nonlinear dynamics All graduates practitioners and professionals in control theory dynamical systems perturbation theory engineering physics and nonlinear dynamics will find the book a rich source of ideas methods and applications With its careful use of examples and detailed development it is suitable for use as a self study reference guide for all scientists and engineers

New Trends in Nonlinear Dynamics and Control, and their Applications Wei Kang, Mingqing Xiao, Carlos

Borges, 2003-09-16 A selection of papers exploring a wide spectrum of new trends in nonlinear dynamics and control such as bifurcation control state estimation and reconstruction analysis of behavior and stabilities dynamics of nonlinear neural network models and numerical algorithms The papers focus on new ideas and the latest developments in both theoretical and applied research topics of nonlinear control Because many of the authors are leading researchers in their own fields the papers presented in this volume reflect the state of the art in the areas of nonlinear dynamics and control Many of the papers in this volume were first presented at the highly successful Symposium on New Trends in Nonlinear Dynamics and Control and Their Applications held October 18-19 2002 in Monterey California

Nonlinear Control Systems Design 1995 A.J.

Krener, D.Q. Mayne, 2016-01-22 The series of IFAC Symposia on Nonlinear Control Systems provides the ideal forum for leading researchers and practitioners who work in the field to discuss and evaluate the latest research and developments This publication contains the papers presented at the 3rd IFAC Symposium in the series which was held in Tahoe City California USA

Regelungstechnik II Heinz Unbehauen, 2009-04-16 In diesem zweiten Band der Regelungstechnik werden

solche Analyse und Syntheseverfahren behandelt die bei der Realisierung moderner Regelkonzepte benötigt werden insbesondere die Grundlagen zur Behandlung von Regelsystemen im Zustandsraum sowie Grundkenntnisse der digitalen

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Computer Aided Systems Theory - EUROCAST 2007 Roberto Moreno Díaz, Franz Pichler, Alexis Quesada Arencibia, 2007-11-16 This book constitutes the thoroughly refereed post proceedings of the 11th International Conference on Computer Aided Systems Theory EUROCAST 2007 Coverage in the 144 revised full papers presented includes formal approaches computation and simulation in modeling biological systems intelligent information processing heuristic problem solving signal processing architectures robotics and robotic soccer cyberscars and intelligent vehicles and artificial intelligence components

Computer Aided Systems Theory - EUROCAST 2005 Roberto Moreno-Díaz, Franz Pichler, Alexis Quesada Arencibia, 2005-09-22 This book constitutes the thoroughly refereed post proceedings of the 10th International Conference on Computer Aided Systems Theory EUROCAST 2005 held in Las Palmas de Gran Canaria Spain in February 2005 The 83 revised full papers presented were carefully reviewed and selected for inclusion in the book The papers are organized in topical sections on formal approaches in modelling intelligent information systems information applications components cryptography and spectral analysis computer vision biocomputing intelligent vehicular systems robotic soccer robotics and control

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Studierende der Elektrotechnik Informationstechnik und des Maschinenbaus als auch an Ingenieure in der Industrie

Dynamic Control and Optimization Tatiana V. Tchemisova, Delfim F. M. Torres, Alexander Yu. Plakhov, 2022-12-29 This book contains the revised selected papers of the International Conference on Dynamic Monitoring and Optimization DCO 2021 held in Aveiro Portugal February 3-5 2021. The papers present achievements in the most challenging areas of dynamic control optimization and related topics including recent results in nonlinear dynamic control systems calculus of variations sub Riemannian geometry conventional differential equations control of PDE evolution stochastic differential equations the spread of acoustic waves in elastic media dynamics in space time Nondegenerate abnormality controllability and the infimum gap phenomena in optimization and optimal control with state constraints **Die Grundlagen der**

Ingenieurwissenschaften Horst Czichos, 2013-07-02 Die Grundlagen der Ingenieurwissenschaften in einem Band: die mathematisch naturwissenschaftlichen Grundlagen Mathematik Physik Chemie die technologischen Grundlagen Werkstoffe Technische Mechanik Technische Thermodynamik Elektrotechnik Messtechnik Regelungs- und Steuerungstechnik Technische Informatik die Grundlagen der technischen Gestaltung Entwicklung und Konstruktion Produktion Betriebswirtschaft Normung Recht Patentwesen. Insbesondere die Kapitel Technische Informatik Thermodynamik Werkstoffe Normung Recht und Patentwesen wurden in der 31. Auflage neu bearbeitet. Das Buch ist eine wichtige Einstiegshilfe für den Studenten und dient ihm als roter Faden für das Studium. Für den Ingenieur im Beruf ist es das aktuelle Nachschlagewerk über alle Disziplinen hinweg.

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