

Nonlinear Dynamical Systems and Control

A LYAPUNOV-BASED APPROACH



Wassim M. Haddad • VijaySekhar Chellaboina

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Henk Nijmeijer

Nonlinear Dynamical Control Systems **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,1990

[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,1990

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

[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 Control of Nonlinear Dynamical Systems Felix L. Chernous'ko,I. M.

Ananievski,S. A. Resmin,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 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 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 EUROCST 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 cybrcars and intelligent vehicles and artificial intelligence components Nonlinear Dynamical Systems and Control Wassim M. Haddad,VijaySekhar

Chellaboina,2008-02-17 The application of dynamical systems has crossed interdisciplinary boundaries from chemistry to biochemistry to chemical kinetics and beyond This book presents and develops a complete and thorough treatment of stability analysis and control design of nonlinear dynamical systems with an emphasis on Lyapunov based methods

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 and time Nondegenerate abnormality controllability and the infimum gap phenomena in optimization and optimal control with state constraints

Nonlinear Dynamical Systems Peter A. Cook, 1986 *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

Backstepping Control of Nonlinear Dynamical Systems Sundarapandian Vaidyanathan, Ahmad Taher Azar, 2020-08-15 Backstepping Control of Nonlinear Dynamical Systems addresses both the fundamentals of backstepping control and advances in the field. The latest techniques explored include active backstepping control adaptive backstepping control fuzzy backstepping control and adaptive fuzzy backstepping control. The reference book provides numerous simulations using MATLAB and circuit design. These illustrate the main results of theory and applications of backstepping control of nonlinear control systems. Backstepping control encompasses varied aspects of mechanical engineering and has many different applications within the field. For example the book covers aspects related to robot manipulators aircraft flight control systems power systems mechanical systems biological systems and chaotic systems. This multifaceted view of subject areas means that this useful reference resource will be ideal for a large cross section of the mechanical engineering community. Details the real world applications of backstepping control. Gives an up to date insight into the theory uses and application of backstepping control. Bridges the gaps for different fields of engineering including mechanical engineering aeronautical engineering electrical engineering communications engineering robotics and biomedical instrumentation.

Optimal Trajectory Tracking of Nonlinear Dynamical Systems Jakob Löber, 2016-12-20 By establishing an alternative foundation of control theory this thesis represents a significant advance in the theory of control systems of interest to a broad range of scientists and engineers. While common control strategies for dynamical systems center on the system state as the object to be controlled the approach developed here focuses on the state trajectory. The concept of precisely realizable trajectories identifies those trajectories that can be accurately achieved by applying appropriate control

signals The resulting simple expressions for the control signal lend themselves to immediate application in science and technology The approach permits the generalization of many well known results from the control theory of linear systems e g the Kalman rank condition to nonlinear systems The relationship between controllability optimal control and trajectory tracking are clarified Furthermore the existence of linear structures underlying nonlinear optimal control is revealed enabling the derivation of exact analytical solutions to an entire class of nonlinear optimal trajectory tracking problems The clear and self contained presentation focuses on a general and mathematically rigorous analysis of controlled dynamical systems The concepts developed are visualized with the help of particular dynamical systems motivated by physics and chemistry

Reduction of Nonlinear Control Systems

V.I. Elkin,2013-01-11 Advances in science and technology necessitate the use of increasingly complicated dynamic control processes Undoubtedly sophisticated mathematical models are also concurrently elaborated for these processes In particular linear dynamic control systems $\dot{x} = Ax + Bu$ $y = Cx + Du$ $U \in \mathbb{R}^n$ where A and B are constants are often abandoned in favor of nonlinear dynamic control systems 2 which in addition contain a large number of equations The solution of problems for multidimensional nonlinear control systems encounters serious difficulties which are both mathematical and technical in nature Therefore it is imperative to develop methods of reduction of nonlinear systems to a simpler form for example decomposition into systems of lesser dimension Approaches to reduction are diverse in particular techniques based on approximation methods In this monograph we elaborate the most natural and obvious in our opinion approach which is essentially inherent in any theory of mathematical entities for instance in the theory of linear spaces theory of groups etc Reduction in our interpretation is based on assigning to the initial object an isomorphic object a quotient object and a subobject In the theory of linear spaces for instance reduction consists in reducing to an isomorphic linear space quotient space and subspace Strictly speaking the exposition of any mathematical theory essentially begins with the introduction of these reduced objects and determination of their basic properties in relation to the initial object

Nonlinear Dynamics of Production Systems

Günter Radons,Reimund Neugebauer,2004 This reference work provides a comprehensive insight into the recent developments of applications of Nonlinear Dynamics in the field of production systems Applications range from manufacturing and process engineering to selected topics in mechanical engineering automation technology and plant management This compilation of contributions shows how methods of Nonlinear Dynamics can be used to solve problems arising in traditional or non conventional manufacturing techniques such as turning high speed milling laser welding jet cutting or electrochemical processing Recent progress in optimizing the dynamics of production lines and complete production systems is also covered The book addresses both experts in Nonlinear Dynamics who want to apply their methods to real world problems and practitioners who seek solutions for their engineering problems

Journal of Mathematical Systems, Estimation, and Control

,1996 Nonlinear Control Systems using MATLAB® Mourad Boufadene,2018-09-24 The development of computer software for nonlinear control systems has provided

many benefits for teaching research and the development of control systems design MATLAB is considered the dominant software platforms for linear and nonlinear control systems analysis This book provides an easy way to learn nonlinear control systems such as feedback linearization technique and Sliding mode control Structure variable control which are one of the most used techniques in nonlinear control dynamical systems therefore teachers students and researchers are all in need to handle such techniques and since they are too difficult for them to handle such nonlinear controllers especially for a more complicated systems such as induction motor satellite and vehicles dynamical models Thus this document it is an excellent resource for learning the principle of feedback linearization and sliding mode techniques in an easy and simple way Provides a briefs description of the feedback linearization and sliding mode control strategies Includes a simple method on how to determine the right and appropriate controller P PI PID for feedback linearization control strategy A Symbolic MATLAB Based function for finding the feedback linearization and sliding mode controllers are developed and tested using several examples A simple method for finding the approximate sliding mode controller parameters is introduced Where the program used to construct the nonlinear controller uses symbolic computations such that the user should provide the program with the necessary functions $f(x)$ $g(x)$ and $h(x)$ using the symbolic library [Dynamics, Control and Algorithms of Rigid Bodies and Flexible Structures](#) Yong-Ren Pu,1996

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