



NONLINEAR CONTROL



Jonathan K. Pao

Slotine Nonlinear Control Solution Manual Cutedpore

Gerasimos G. Rigatos



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Applied Nonlinear Control Jean-Jacques E. Slotine, Weiping Li, 1991 In this work the authors present a global perspective on the methods available for analysis and design of non linear control systems and detail specific applications They provide a tutorial exposition of the major non linear systems analysis techniques followed by a discussion of available non linear design methods

Uniform Output Regulation of Nonlinear Systems Alexey Victorovich Pavlov, Nathan van de Wouw, Henk Nijmeijer, 2006-07-27 The problem of asymptotic regulation of the output of a dynamical system plays a central role in control theory An important variant of this problem is the output regulation problem which can be used in areas such as s point control tracking reference signals and rejecting disturbances generated by an external system controlled synchronization of dynamical systems and observer design for autonomous systems At the moment this is a hot topic in nonlinear control This book is a result of a four year research project conducted at the Eindhoven University of Technology This project entitled Robust output regulation for complex dynamical systems began with the observation that the problem of controlled synchronization of dynamical systems can be considered as a particular case of the output regulation problem In the beginning of the project known solutions to the controlled synchronization problem were global and dealt with nonlinear systems having complex chaotic dynamics At the same time most of the existing solutions to the nonlinear output regulation problem were local and dealt mostly with exosystems being linear harmonic oscillators Our initial idea was using the results from the controlled synchronization problem as a starting point to extend solutions of the nonlinear output regulation problem from the local case to the global case and to avoid restrictive assumptions on the exosystem As a first step we started looking for points that were common to these two problems

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

Advances and Applications in Nonlinear Control Systems Sundarapandian Vaidyanathan, Christos Volos, 2018-04-25 The book reports on the latest advances and applications of nonlinear control systems It consists of 30 contributed chapters by subject experts who are specialized in the various topics addressed in this book The special chapters have been brought out in the broad areas of nonlinear control systems such as robotics nonlinear circuits power systems memristors underwater vehicles chemical processes observer design output regulation backstepping control sliding mode control time delayed control variables structure control robust adaptive control fuzzy logic control chaos hyperchaos jerk systems hyperjerk systems chaos control chaos synchronization etc Special importance was given to chapters offering practical solutions modeling and novel control methods for the recent research problems in nonlinear control systems This book will serve as a reference book for graduate students and researchers with a basic knowledge of electrical and control systems engineering The resulting design procedures on the nonlinear control systems are emphasized using MATLAB

software Nonlinear Control and Filtering Using Differential Flatness Approaches Gerasimos G. Rigatos, 2016-10-13 This monograph presents recent advances in differential flatness theory and analyzes its use for nonlinear control and estimation. It shows how differential flatness theory can provide solutions to complicated control problems such as those appearing in highly nonlinear multivariable systems and distributed parameter systems. Furthermore, it shows that differential flatness theory makes it possible to perform filtering and state estimation for a wide class of nonlinear dynamical systems and provides several descriptive test cases. The book focuses on the design of nonlinear adaptive controllers and nonlinear filters using exact linearization based on differential flatness theory. The adaptive controllers obtained can be applied to a wide class of nonlinear systems with unknown dynamics and assure reliable functioning of the control loop under uncertainty and varying operating conditions. The filters obtained outperform other nonlinear filters in terms of accuracy of estimation and computation speed. The book presents a series of application examples to confirm the efficiency of the proposed nonlinear filtering and adaptive control schemes for various electromechanical systems. These include industrial robots, mobile robots, and autonomous vehicles, electric power generation, electric motors and actuators, power electronics, internal combustion engines, distributed parameter systems, and communication systems. Differential Flatness Approaches to Nonlinear Control and Filtering will be a useful reference for academic researchers studying advanced problems in nonlinear control and nonlinear dynamics and for engineers working on control applications in electromechanical systems.

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