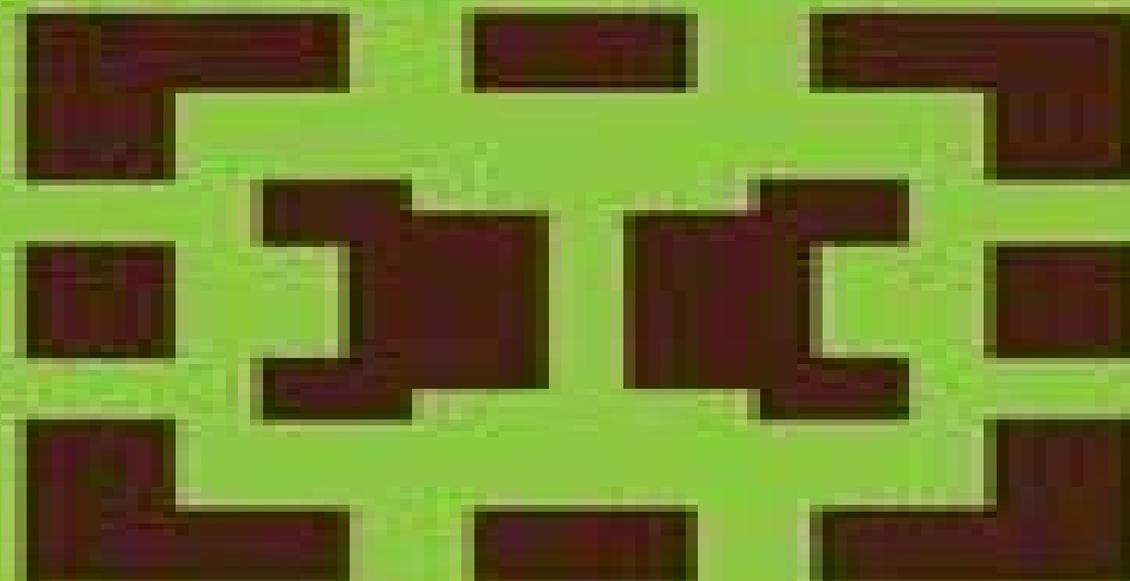


Mathematics and Its Applications

M. Hirsch and M. Hauserwiesler (Eds.)

Algebraic and Geometric Methods in Nonlinear Control Theory



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Algebraic And Geometric Methods In Nonlinear Control Theory

Alberto Isidori



Algebraic And Geometric Methods In Nonlinear Control Theory:

Algebraic and Geometric Methods in Nonlinear Control Theory M. Fliess, Michiel Hazewinkel, 2012-12-06 Approach your problems from the right end It isn't that they can't see the solution It is and begin with the answers Then one day that they can't see the problem perhaps you will find the final question G K Chesterton The Scandal of Father The Hermit Clad in Crane Feathers in R Brown The point of a Pin van Gulik's The Chinese Maze Murders Growing specialization and diversification have brought a host of monographs and textbooks on increasingly specialized topics However the tree of knowledge of mathematics and related fields does not grow only by putting forth new branches It also happens quite often in fact that branches which were thought to be completely disparate are suddenly seen to be related Further the kind and level of sophistication of mathematics applied in various sciences has changed drastically in recent years measure theory is used non trivially in regional and theoretical economics algebraic geometry interacts with physics the Minkowsky lemma coding theory and the structure of water meet one another in packing and covering theory quantum fields crystal defects and mathematical programming profit from homotopy theory Lie algebras are relevant to filtering and prediction and electrical engineering can use Stein spaces And in addition to this there are such new emerging subdisciplines as experimental mathematics CFD completely integrable systems chaos synergetics and large scale order which are almost impossible to fit into the existing classification schemes They draw upon widely different sections of mathematics [Conference on the algebraic and geometric methods in non-linear control theory](#) Société de mathématiques appliquées et industrielles (France), Centre national de la recherche scientifique (France), Société mathématique de France, 1985 [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 Systems II* Alberto Isidori, 1999-09-22 This eagerly awaited follow up to *Nonlinear Control Systems* incorporates recent advances in the design of feedback laws for the purpose of globally stabilizing nonlinear systems via state or output feedback The author is one of the most prominent researchers in the field [Geometric Methods in System Theory](#) D.Q. Mayne, R.W. Brockett, 2012-12-06 Geometric Methods in System Theory In automatic control there are a large number of applications of a fairly simple type for which the motion of the state variables

is not free to evolve in a vector space but rather must satisfy some constraints. Examples are numerous in a switched lossless electrical network energy is conserved and the state evolves on an ellipsoid surface defined by $x^T Q x = \text{constant}$ in the control of finite state continuous time Markov processes the state evolves on the set $x \in \mathbb{R}^n$. The control of rigid body motions and trajectory control leads to problems of this type. There has been under way now for some time an effort to build up enough control theory to enable one to treat these problems in a more or less routine way. It is important to emphasize that the ordinary vector space linear theory often gives the wrong insight and thus should not be relied upon.

Algebraic and Differential Methods for Nonlinear Control Theory Rafael Martínez-Guerra, Oscar Martínez-Fuentes, Juan Javier Montesinos-García, 2019-01-30. This book is a short primer in engineering mathematics with a view on applications in nonlinear control theory. In particular it introduces some elementary concepts of commutative algebra and algebraic geometry which offer a set of tools quite different from the traditional approaches to the subject matter. This text begins with the study of elementary set and map theory. Chapters 2 and 3 on group theory and rings respectively are included because of their important relation to linear algebra: the group of invertible linear maps or matrices and the ring of linear maps of a vector space. Homomorphisms and Ideals are dealt with as well at this stage. Chapter 4 is devoted to the theory of matrices and systems of linear equations. Chapter 5 gives some information on permutations, determinants and the inverse of a matrix. Chapter 6 tackles vector spaces over a field. Chapter 7 treats linear maps resp linear transformations and in addition the application in linear control theory of some abstract theorems such as the concept of a kernel, the image and dimension of vector spaces are illustrated. Chapter 8 considers the diagonalization of a matrix and their canonical forms. Chapter 9 provides a brief introduction to elementary methods for solving differential equations and finally in Chapter 10 nonlinear control theory is introduced from the point of view of differential algebra.

Mathematical Control Theory John B. Baillieul, J.C. Willems, 2012-12-06. This volume on mathematical control theory contains high quality articles covering the broad range of this field. The internationally renowned authors provide an overview of many different aspects of control theory offering a historical perspective while bringing the reader up to the very forefront of current research.

Perspectives in Control Theory B. Jakubczyk, 2013-04-17. The volume contains papers based on lectures delivered during the school Perspectives in Control Theory held in Sielpia Poland on September 19-24 1988. The aim of the school was to give the state of the art presentation of recent achievements as well as perspectives in such fields of control theory as optimal control and optimization, linear systems and nonlinear systems. Accordingly the volume includes survey papers together with presentations of some recent results. The special emphasis is put on nonlinear systems, algebraic and geometric methods, optimal control and optimization, general problems, distributed parameter systems, linear systems, linear quadratic problem, robust stabilization. An important feature of the school and consequently of the volume was its really international character since it brought together leading control theorists from West and East. All together the school was attended by 108

participants from 18 countries During the school 21 one hour invited lectures were delivered Moreover five half an hour talks were given and 30 contributions were presented in frames of poster sessions The school was organized and supported by Institute of Mathematics of the Polish Academy of Sciences Committee of Automatic Control and Robotics of the Polish Academy of Sciences Institute of Automatic Control Warsaw University of Technology as Co ordinator of the Basic Research Program R P I 02 Theory of Control of Continuous Dynamic Systems and Discrete Processes

Dynamics and Control of Chemical Reactors, Distillation Columns and Batch Processes (DYCORD+ '92) J.G. Balchen, E.D. Gilles, K.V. Waller, J.B. Rawlings, 2014-05-23 In addition to the three main themes chemical reactors distillation columns and batch processes this volume also addresses some of the new trends in dynamics and control methodology such as model based predictive control new methods for identification of dynamic models nonlinear control theory and the application of neural networks to identification and control Provides a useful reference source of the major advances in the field

Theory and Applications of Nonlinear Control Systems Christopher I. Byrnes, Anders Lindquist, 1986 *Introduction to Geometric Control* Yuri Sachkov, 2022-07-02 This text is an enhanced English version of the Russian edition published in early 2021 and is appropriate for an introductory course in geometric control theory The concise presentation provides an accessible treatment of the subject for advanced undergraduate and graduate students in theoretical and applied mathematics as well as to experts in classic control theory for whom geometric methods may be introduced Theory is accompanied by characteristic examples such as stopping a train motion of mobile robot Euler elasticae Dido s problem and rolling of the sphere on the plane Quick foundations to some recent topics of interest like control on Lie groups and sub Riemannian geometry are included Prerequisites include only a basic knowledge of calculus linear algebra and ODEs preliminary knowledge of control theory is not assumed The applications problems oriented approach discusses core subjects and encourages the reader to solve related challenges independently Highly motivated readers can acquire working knowledge of geometric control techniques and progress to studying control problems and more comprehensive books on their own Selected sections provide exercises to assist in deeper understanding of the material Controllability and optimal control problems are considered for nonlinear nonholonomic systems on smooth manifolds in particular on Lie groups For the controllability problem the following questions are considered controllability of linear systems local controllability of nonlinear systems Nagano Sussmann Orbit theorem Rashevskii Chow theorem Krener s theorem For the optimal control problem Filippov s theorem is stated invariant formulation of Pontryagin maximum principle on manifolds is given second order optimality conditions are discussed and the sub Riemannian problem is studied in detail Pontryagin maximum principle is proved for sub Riemannian problems solution to the sub Riemannian problems on the Heisenberg group the group of motions of the plane and the Engel group is described

Introduction to Geometric Control Yuri Sachkov, 2022-06-28 This text is an enhanced English version of the Russian edition published in early 2021 and is appropriate for an introductory

course in geometric control theory The concise presentation provides an accessible treatment of the subject for advanced undergraduate and graduate students in theoretical and applied mathematics as well as to experts in classic control theory for whom geometric methods may be introduced Theory is accompanied by characteristic examples such as stopping a train motion of mobile robot Euler elasticae Dido s problem and rolling of the sphere on the plane Quick foundations to some recent topics of interest like control on Lie groups and sub Riemannian geometry are included Prerequisites include only a basic knowledge of calculus linear algebra and ODEs preliminary knowledge of control theory is not assumed The applications problems oriented approach discusses core subjects and encourages the reader to solve related challenges independently Highly motivated readers can acquire working knowledge of geometric control techniques and progress to studying control problems and more comprehensive books on their own Selected sections provide exercises to assist in deeper understanding of the material Controllability and optimal control problems are considered for nonlinear nonholonomic systems on smooth manifolds in particular on Lie groups For the controllability problem the following questions are considered controllability of linear systems local controllability of nonlinear systems Nagano Sussmann Orbit theorem Rashevskii Chow theorem Krener s theorem For the optimal control problem Filippov s theorem is stated invariant formulation of Pontryagin maximum principle on manifolds is given second order optimality conditions are discussed and the sub Riemannian problem is studied in detail Pontryagin maximum principle is proved for sub Riemannian problems solution to the sub Riemannian problems on the Heisenberg group the group of motions of the plane and the Engel group is described

Geometry in Nonlinear Control and Differential Inclusions Bronisław Jakubczyk,W. Respondek,Tadeusz

Rzeżuchowski,1995

Nonlinear Control Systems II Alberto Isidori,2012-10-21 This eagerly awaited follow up to

Nonlinear Control Systems incorporates recent advances in the design of feedback laws for the purpose of globally stabilizing nonlinear systems via state or output feedback The author is one of the most prominent researchers in the field

Algebraic Methods for Nonlinear Control Systems Giuseppe Conte,Claude H. Moog,Anna Maria Perdon,2007-01-19 A self contained

introduction to algebraic control for nonlinear systems suitable for researchers and graduate students Algebraic Methods for Nonlinear Control Systems develops a linear algebraic alternative to the usual differential geometric approach to nonlinear control using vector spaces over suitable fields of nonlinear functions It describes a range of results some of which can be derived using differential geometry but many of which cannot They include classical and generalized realization in the nonlinear context accessibility and observability recast for the linear algebraic setting discussion and solution of basic feedback problems results for dynamic and static state and output feedback Dynamic feedback and realization are shown to be dealt with and solved much more easily in the algebraic framework The second edition has been completely revised with new text examples and exercises it is divided into two parts necessary methodology and applications to control problems

Analysis and Control of Nonlinear Systems Christopher I. Byrnes,Clyde Martin,Richard Saeks,1988 **SIAM**

Journal on Control and Optimization Society for Industrial and Applied Mathematics,1976 Contains research articles on the mathematics and applications of control theory and on those parts of optimization theory concerned with the dynamics of deterministic or stochastic systems in continuous or discrete time or otherwise dealing with differential equations dynamics infinite dimensional spaces or fundamental issues in variational analysis and geometry

Nonlinear Control Systems G. Conte,C.H. Moog,A.M. Perdon,2014-03-12 This book provides a unique and alternative approach to the study of nonlinear control systems with applications The approach presented is based on the use of algebraic methods which are intrinsically linear rather than differential geometric methods which are more commonly found in other reference works on the subject This allows the exposition to remain simple from a mathematical point of view and accessible for everyone who has a good understanding of linear control theory The book is divided into the following three parts Part 1 is devoted to mathematical preliminaries and to the development of tools and methods for system analysis Part 2 is concerned with solving specific control problems including disturbance decoupling non interactive control model matching and feedback linearization problems Part 3 introduces differential algebraic notions and discusses their applications to nonlinear control and system theory With numerous examples used to illustrate theoretical results this self contained and comprehensive volume will be of interest to all those who have a good basic knowledge of standard linear control systems

Adaptive Systems in Control and Signal Processing 1992 L. Dugard,M. M'Saad,1993 Adaptive Systems remain a very interesting field of theoretical research extended by methodological studies and an increasing number of applications The plenary papers invited sessions and contributed sessions focused on many aspects of adaptive systems such as systems identification and modelling adaptive control of nonlinear systems and theoretical issues in adaptive control Also covered were methodological aspects and applications of adaptive control intelligent tuning and adaptive signal processing

Journal of Mathematical Systems, Estimation, and Control ,1998

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