

Mathematics and Its Applications

M. Fliess and M. Hazewinkel (Eds.)

**Algebraic and Geometric
Methods in
Nonlinear Control Theory**



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Algebraic And Geometric Methods In Nonlinear Control Theory

Magnus Egerstedt



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 **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

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

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 Coordinator of the Basic Research Program R P I 02 Theory of Control of Continuous Dynamic Systems and Discrete Processes

Hybrid Systems: Computation and Control Magnus Egerstedt, 2008-04-03 This book constitutes the refereed proceedings of the 11th International Conference on Hybrid Systems Computation and Control HSCC 2008 held in St Louis MO USA in April 2008 The 42 revised full papers and 20 revised short papers presented were carefully reviewed and selected from numerous submissions for inclusion in the book The papers focus on research in embedded reactive systems involving the interplay between symbolic switching and continuous dynamical behaviors and feature the latest developments of applications and theoretical advancements in the design analysis control optimization and implementation of hybrid systems with particular attention to embedded and networked control systems

Nonlinear Control Systems Design 1989 A. Isidori, 2014-05-23 In the last two decades the development of specific methodologies for the control of systems described by nonlinear mathematical models has attracted

an ever increasing interest New breakthroughs have occurred which have aided the design of nonlinear control systems However there are still limitations which must be understood some of which were addressed at the IFAC Symposium in Capri The emphasis was on the methodological developments although a number of the papers were concerned with the presentation of applications of nonlinear design philosophies to actual control problems in chemical electrical and mechanical engineering

Three Decades of Progress in Control Sciences Xiaoming Hu,Ulf Jonsson,Bo Wahlberg,Bijoy Ghosh,2010-10-29 In this edited collection we commemorate the 60th birthday of Prof Christopher Byrnes and the retirement of Prof Anders Lindquist from the Chair of Optimization and Systems Theory at KTH These papers were presented in part at a 2009 workshop in KTH Stockholm honoring the lifetime contributions of Professors Byrnes and Lindquist in various fields of applied mathematics

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 $x^T Q x$ equals a 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 emphasise that the ordinary vector space linear theory often gives the wrong insight and thus should not be relied upon

Geometrical Methods in Variational Problems N.A. Bobylov,S.V. Emel'yanov,S. Korovin,2012-12-06 This self contained monograph presents methods for the investigation of nonlinear variational problems These methods are based on geometric and topological ideas such as topological index degree of a mapping Morse Conley index Euler characteristics deformation invariant homotopic invariant and the Lusternik Shnirelman category Attention is also given to applications in optimisation mathematical physics control and numerical methods Audience This volume will be of interest to specialists in functional analysis and its applications and can also be recommended as a text for graduate and postgraduate level courses in these fields

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 In the past few years differential geometry has proved to be an effective means of analysis and design of nonlinear control systems as it was in the past for the Laplace transform complex variable theory and linear algebra in relation to linear systems Synthesis problems of longstanding interest like disturbance decoupling noninteracting control output regulation and the shaping of the input output response can be dealt with relative ease on the basis of mathematical concepts that can be easily acquired by a control scientist

Differential Geometry: The Interface between Pure and Applied Mathematics Mladen Luksic, 1987 Contains papers that represent the proceedings of a conference entitled Differential Geometry The Interface Between Pure and Applied Mathematics which was held in San Antonio Texas in April 1986 This work covers a range of applications and techniques in such areas as ordinary differential equations Lie groups algebra and control theory

Hybrid Dynamical Systems Mohamed Djemai, Michael Defoort, 2014-10-13 This book is a collection of contributions defining the state of current knowledge and new trends in hybrid systems systems involving both continuous dynamics and discrete events as described by the work of several well known groups of researchers Hybrid Dynamical Systems presents theoretical advances in such areas as diagnosability observability and stabilization for various classes of system Continuous and discrete state estimation and self triggering control of nonlinear systems are advanced The text employs various methods among them high order sliding modes Takagi Sugeno representation and sampled data switching to achieve its ends The many applications of hybrid systems from power converters to computer science are not forgotten studies of flexible joint robotic arms and as representative biological systems the behaviour of the human heart and vasculature demonstrate the wide ranging practical significance of control in hybrid systems The cross disciplinary origins of study in hybrid systems are evident Academic researchers and graduate students interested in hybrid and switched systems need look no further than Hybrid Dynamical Systems for a single source which will bring them up to date with work in this area from around the world

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

Pareto Optimality, Game Theory and Equilibria Panos M. Pardalos, A. Migdalas, Leonidas Pitsoulis, 2008-07-02 This comprehensive work examines important recent developments and modern applications in the fields of optimization control game theory and equilibrium programming In particular the concepts of equilibrium and optimality are of immense practical importance affecting decision making problems regarding policy and strategies and in understanding and predicting systems in different application domains ranging from economics and engineering to military applications The book consists of 29 survey

chapters written by distinguished researchers in the above areas Dynamics and Control of Multibody Systems Perinkulam Sambamurthy Krishnaprasad, Juan C. Simo, 1989 The study of complex interconnected mechanical systems with rigid and flexible articulated components is of growing interest to both engineers and mathematicians Recent work in this area reveals a rich geometry underlying the mathematical models used in this context In particular Lie groups of symmetries reduction and Poisson structures play a significant role in explicating the qualitative properties of multibody systems In engineering applications it is important to exploit the special structures of mechanical systems For example certain mechanical problems involving control of interconnected rigid bodies can be formulated as Lie Poisson systems The dynamics and control of robotic aeronautic and space structures involve difficulties in modeling mathematical analysis and numerical implementation For example a new generation of spacecraft with large flexible components are presenting new challenges to the accurate modeling and prediction of the dynamic behavior of such structures Recent developments in Hamiltonian dynamics and coupling of systems with symmetries has shed new light on some of these issues while engineering questions have suggested new mathematical structures These kinds of considerations motivated the organization of the AMS IMS SIAM Joint Summer Research Conference on Control Theory and Multibody Systems held at Bowdoin College in August 1988 This volume contains the proceedings of that conference The papers presented here cover a range of topics all of which could be viewed as applications of geometrical methods to problems arising in dynamics and control The volume contains contributions from some of the top researchers and provides an excellent overview of the frontiers of research in this burgeoning area

Adaptive Systems in Control and Signal Processing 1992 L. Dugard, M. M'Saad, I.D. Landau, 2014-06-28 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 **European Control Conference 1995** , 1995-09-05 Proceedings of the European Control Conference 1995 Rome Italy 5 8 September 1995 **The Merging of Disciplines: New Directions in Pure, Applied, and Computational Mathematics** Richard E. Ewing, Kenneth I. Gross, Clyde F. Martin, 2012-12-06 This volume is the Proceedings of the symposium held at the University of Wyoming in August 1985 to honor Gail Young on his seventieth birthday which actually took place on October 3 1985 and on the occasion of his retirement Nothing can seem more natural to a mathematician in this country than to honor Gail Young Gail embodies all the qualities that a mathematician should possess He is an active and effective research mathematician having written over sixty papers in topology n dimensional analysis complex variables and miscellanea He is an outstanding expositor as his fine book Topology written with J G Hocking Addison Wesley 1961 amply demonstrates He has a superlative record in public office of outstanding unstinting service to the mathematical community

and to the cause of education But what makes Gail unique and special is that throughout all aspects of his distinguished career he has emphasized human values in everything he has done In touching the lives of so many of us he has advanced the entire profession Deservedly he has innumerable friends in the mathematical community the academic community and beyond Nonlinear System Theory Casti,1985-02-21 Nonlinear System Theory

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