Peter Falb

Methods of Algebraic Geometry in Control Theory: Part I

Scalar Linear Systems and Affine Algebraic Geometry

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Methods Of Algebraic Geometry In Control Theory Part 1 Scalar Linear Systems Affine Algebraic Geometry

Laura Menini,Corrado Possieri,Antonio Tornambe

Methods Of Algebraic Geometry In Control Theory Part 1 Scalar Linear Systems Affine Algebraic Geometry:

Methods of Algebraic Geometry in Control Theory: Part I Peter Falb,2018-08-25 An introduction to the ideas of algebraic geometry in the motivated context of system theory Thus the author describes his textbook that has been specifically written to serve the needs of students of systems and control Without sacrificing mathematical care the author makes the basic ideas of algebraic geometry accessible to engineers and applied scientists The emphasis is on constructive methods and clarity rather than abstraction The student will find here a clear presentation with an applied flavor of the core ideas in the algebra geometric treatment of scalar linear system theory The author introduces the four representations of a scalar linear system and establishes the major results of a similar theory for multivariable systems appearing in a succeeding volume Part II Multivariable Linear Systems and Projective Algebraic Geometry Prerequisites are the basics of linear algebra some simple notions from topology and the elementary properties of groups rings and fields and a basic course in linear systems Exercises are an integral part of the treatment and are used where relevant in the main body of the text The present softcover reprint is designed to make this classic textbook available to a wider audience This book is a concise development of affine algebraic geometry together with very explicit links to the applications and should address a wide community of readers among pure and applied mathematicians Monatshefte f r Mathematik   *Methods of Algebraic Geometry in Control Theory: Part II* Peter Falb,1990 Control theory represents an attempt to codify in mathematical terms the principles and techniques used in the analysis and design of control systems Algebraic geometry may in an elementary way be viewed as the study of the structure and properties of the solutions of systems of algebraic equations The aim of this book is to provide access to the methods of algebraic geometry for engineers and applied scientists through the motivated context of control theory The development which culminated with this volume began over twenty five years ago with a series of lectures at the control group of the Lund Institute of Technology in Sweden I have sought throughout to strive for clarity often using constructive methods and giving several proofs of a particular result as well as many examples The first volume dealt with the simplest control systems i e single input single output linear time invariant systems and with the simplest algebraic geometry i e affine algebraic geometry While this is quite satisfactory and natural for scalar systems the study of multi input multi output linear time invariant control systems requires projective algebraic geometry Thus this second volume deals with multi variable linear systems and pro jective algebraic geometry The results are deeper and less transparent but are also quite essential to an understanding of linear control theory A review of From the Preface to Part 1 viii Preface the scalar theory is included along with a brief summary of affine algebraic geometry Appendix E   **Methods of Algebraic Geometry in Control Theory: Part II** Peter Falb,2000-02-01 Control theory represents an attempt to codify in mathematical terms the principles and techniques used in the analysis and design of control systems Algebraic geometry may in an elementary way be viewed as the study of the structure and properties of the solutions of systems of algebraic equations The aim of this book is to provide

access to the methods of algebraic geometry for engineers and applied scientists through the motivated context of control theory The development which culminated with this volume began over twenty five years ago with a series of lectures at the control group of the Lund Institute of Technology in Sweden I have sought throughout to strive for clarity often using constructive methods and giving several proofs of a particular result as well as many examples The first volume dealt with the simplest control systems i e single input single output linear time invariant systems and with the simplest algebraic geometry i e affine algebraic geometry While this is quite satisfactory and natural for scalar systems the study of multi input multi output linear time invariant control systems requires projective algebraic geometry Thus this second volume deals with multi variable linear systems and pro jective algebraic geometry The results are deeper and less transparent but are also quite essential to an understanding of linear control theory A review of From the Preface to Part 1 viii Preface the scalar theory is included along with a brief summary of affine algebraic geometry Appendix E **Methods of Algebraic Geometry in Control Theory: Part II** Peter Falb,2018-09-14 An introduction to the ideas of algebraic geometry in the motivated context of system theory This describes this two volume work which has been specifically written to serve the needs of researchers and students of systems control and applied mathematics Without sacrificing mathematical rigor the author makes the basic ideas of algebraic geometry accessible to engineers and applied scientists The emphasis is on constructive methods and clarity rather than on abstraction While familiarity with Part I is helpful it is not essential since a considerable amount of relevant material is included here Part I Scalar Linear Systems and Affine Algebraic Geometry contains a clear presentation with an applied flavor of the core ideas in the algebra geometric treatment of scalar linear system theory Part II extends the theory to multivariable systems After delineating limitations of the scalar theory through carefully chosen examples the author introduces seven representations of a multivariable linear system and establishes the major results of the underlying theory Of key importance is a clear detailed analysis of the structure of the space of linear systems including the full set of equations defining the space Key topics also covered are the Geometric Quotient Theorem and a highly geometric analysis of both state and output feedback Prerequisites are the basics of linear algebra some simple topological notions the elementary properties of groups rings and fields and a basic course in linear systems Exercises which are an integral part of the exposition throughout combined with an index and extensive bibliography of related literature make this a valuable classroom tool or good self study resource The present softcover reprint is designed to make this classic textbook available to a wider audience The exposition is extremely clear In order to motivate the general theory the author presents a number of examples of two or three input two output systems in detail I highly recommend this excellent book to all those interested in the interplay between control theory and algebraic geometry Publicationes Mathematicae Debrecen This book is the multivariable counterpart of Methods of Algebraic Geometry in Control Theory Part I In the first volume the simpler single input single output time invariant linear systems were considered and the corresponding simpler affine

algebraic geometry was used as the required prerequisite Obviously multivariable systems are more difficult and consequently the algebraic results are deeper and less transparent but essential in the understanding of linear control theory Each chapter contains illustrative examples throughout and terminates with some exercises for further study Mathematical Reviews **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 **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

Number Theory And Its Applications Ii Hailong Li,Fuhuo Li,Nianliang Wang,Shigeru Kanemitsu,2017-11-29 The aim of the book is to give a smooth analytic continuation from basic subjects including linear algebra group theory Hilbert space theory etc to number theory With plenty of practical examples and worked out exercises and the scope ranging from these basic subjects made applicable to number theoretic settings to advanced number theory this book can then be read without tears It will be of immense help to the reader to acquire basic sound skills in number theory and its applications Number theory used to be described as the queen of mathematics that is there is no practical use However with the development of computers and the security of internet communications the importance of number theory has been exponentially increasing daily The raison d tre of the present book in this situation is that it is extremely reader friendly while keeping the rigor of serious mathematics and in depth analysis of practical applications to various subjects including control theory and pseudo random number generation The use of operators is prevailing rather abundantly in anticipation of applications to electrical

engineering allowing the reader to master these skills without much difficulty It also delivers a very smooth bridging between elementary subjects including linear algebra and group theory and algebraic number theory for the reader to be well versed in an efficient and effortless way One of the main features of the book is that it gives several different approaches to the same topic helping the reader to gain deeper insight and comprehension Even just browsing through the materials would be beneficial to the reader   Special Functions and Analysis of Differential Equations Praveen Agarwal,Ravi P Agarwal,Michael Ruzhansky,2020-09-08 Differential Equations are very important tools in Mathematical Analysis They are widely found in mathematics itself and in its applications to statistics computing electrical circuit analysis dynamical systems economics biology and so on Recently there has been an increasing interest in and widely extended use of differential equations and systems of fractional order that is of arbitrary order as better models of phenomena in various physics engineering automatization biology and biomedicine chemistry earth science economics nature and so on Now new unified presentation and extensive development of special functions associated with fractional calculus are necessary tools being related to the theory of differentiation and integration of arbitrary order i e fractional calculus and to the fractional order or multi order differential and integral equations This book provides learners with the opportunity to develop an understanding of advancements of special functions and the skills needed to apply advanced mathematical techniques to solve complex differential equations and Partial Differential Equations PDEs Subject matters should be strongly related to special functions involving mathematical analysis and its numerous applications The main objective of this book is to highlight the importance of fundamental results and techniques of the theory of complex analysis for differential equations and PDEs and emphasizes articles devoted to the mathematical treatment of questions arising in physics chemistry biology and engineering particularly those that stress analytical aspects and novel problems and their solutions Specific topics include but are not limited to Partial differential equations Least squares on first order system Sequence and series in functional analysis Special functions related to fractional non integer order control systems and equations Various special functions related to generalized fractional calculus Operational method in fractional calculus Functional analysis and operator theory Mathematical physics Applications of numerical analysis and applied mathematics Computational mathematics Mathematical modeling This book provides the recent developments in special functions and differential equations and publishes high quality peer reviewed book chapters in the area of nonlinear analysis ordinary differential equations partial differential equations and related applications   *MUS - Mathematimus - Hyperelliptical Geometry* Stenio Musich,2024-03-25 M U S Mathematical Uniform Space is a new number of pi representing the reality of the Universe in which we live With this number we created a new geometry Hyperelliptical Geometry which will provide the unification of physics thus uniting the Theory of Relativity and Quantum Theory A new geometry for a new Mathematics and a new Physics ISBN 978 65 00 98107 0   **Modelling and Control in Solid Mechanics** A. M. Khludnev,Jan Sokołowski,1997 This book covers the boundary value problems for a wide

range of mathematical models of the mechanics of deformable bodies in particular the boundary value problems concerning plates and shells crack theory and elastoplastic bodies An essential feature of the discussed boundary value problems is the availability of the inequality type constraints imposed on solutions such as the impenetration condition for contact problems the yield plasticity condition etc As a consequence the presence of free boundaries is typical of the boundary value problems concerned The objective of the book is to display some new methods of analyzing such problems as well as to perform research on new models evolved from engineering practice Readers will find a variety of new mathematical models describing some contact problems for plates and shells an equilibrium of plates involving cracks etc Furthermore some new mathematical methods are presented which were specially developed by the authors to study the problems concerned These help to convey a comprehensive picture of the present state of mathematical problems on the free boundary elasticity and plasticity theory The book is intended for postgraduates scientists and engineers and for Students interested in problems of modelling and optimal control in the mechanics of deformable bodies   *Partially Observable Linear Systems Under Dependent Noises* Agamirza E. Bashirov,2003-01-23 This book discusses the methods of fighting against noise It can be regarded as a mathematical view of specific engineering problems with known and new methods of control and estimation in noisy media From the reviews An excellent reference on the complete sets of equations for the optimal controls and for the optimal filters under wide band noises and shifted white noises and their possible application to navigation of spacecraft MATHEMATICAL REVIEWS   Optimal Control Bulirsch,Miele,Stoer,Well,2013-03-08 Optimal Control reports on new theoretical and practical advances essential for analysing and synthesizing optimal controls of dynamical systems governed by partial and ordinary differential equations New necessary and sufficient conditions for optimality are given Recent advances in numerical methods are discussed These have been achieved through new techniques for solving large sized nonlinear programs with sparse Hessians and through a combination of direct and indirect methods for solving the multipoint boundary value problem The book also focuses on the construction of feedback controls for nonlinear systems and highlights advances in the theory of problems with uncertainty Decomposition methods of nonlinear systems and new techniques for constructing feedback controls for state and control constrained linear quadratic systems are presented The book offers solutions to many complex practical optimal control problems   **Journal of Economic Literature** ,1993   *Fuzzy Mathematics* John N. Mordeson,Premchand S. Nair,2001-09-07 In the mid 1960 s I had the pleasure of attending a talk by Lotfi Zadeh at which he presented some of his basic and at the time recent work on fuzzy sets Lotfi s algebra of fuzzy subsets of a set struck me as very nice in fact as a graduate student in the mid 1950 s I had suggested similar ideas about continuous truth valued propositional calculus inffor and sup for or to my advisor but he didn t go for it and in fact confused it with the foundations of probability theory so I ended up writing a thesis in a more conventional area of mathematics differential algebra I especially enjoyed Lotfi s discussion of fuzzy convexity I remember talking to him about possible ways of extending

this work but I didn t pursue this at the time I have elsewhere told the story of how when I saw C L Chang s 1968 paper on fuzzy topological spaces I was impelled to try my hand at fuzzi fying algebra This led to my 1971 paper Fuzzy groups which became the starting point of an entire literature on fuzzy algebraic structures In 1974 King Sun Fu invited me to speak at a U S Japan seminar on Fuzzy Sets and their Applications which was to be held that summer in Berkeley *Algebraic Geometry For Robotics And Control Theory* Laura Menini,Corrado Possieri,Antonio Tornambe,2021-09-02 The development of inexpensive and fast computers coupled with the discovery of efficient algorithms for dealing with polynomial equations has enabled exciting new applications of algebraic geometry and commutative algebra Algebraic Geometry for Robotics and Control Theory shows how tools borrowed from these two fields can be efficiently employed to solve relevant problem arising in robotics and control theory After a brief introduction to various algebraic objects and techniques the book first covers a wide variety of topics concerning control theory robotics and their applications Specifically this book shows how these computational and theoretical methods can be coupled with classical control techniques to solve the inverse kinematics of robotic arms design observers for nonlinear systems solve systems of polynomial equalities and inequalities plan the motion of mobile robots analyze Boolean networks solve possibly multi objective optimization problems characterize the robustness of linear time invariant plants and certify positivity of polynomials **Mathematical Reviews** ,2005 **International Books in Print** ,1997 **Modelling and Control of National and Regional Economies 1995** Ljubisa Vlačić,Duc-Tho Nguyen,Dubravka Ćećez-Kecmanović,1996 Paperback The IFAC Symposium on Modelling and Control of National and Regional Economies held on 2 5 July 1995 at the Gold Coast Queensland Australia was attended by members of different disciplines involved in the modelling and control of economic financial production and other systems The Symposium provided a forum for the exchange of ideas and results between on the one hand the engineers information technology specialists and other developers of modelling and control techniques and on the other users of these techniques especially economists econometricians finance specialists and management experts This IFAC postprint volume is generated from the papers presented at this symposium **Subject Guide to Books in Print** ,1997 **Books in Print Supplement** ,2002

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