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A Polynomial Approach to Linear Algebra

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Polynomial Approach To Linear Algebra

Victor Kac, Pokman Cheung



Polynomial Approach To Linear Algebra:

A Polynomial Approach to Linear Algebra Paul A. Fuhrmann, 2014-01-15 **A Polynomial Approach to Linear Algebra**, 2011-11-23 **A Polynomial Approach to Linear Algebra** Paul Abraham Fuhrmann, 1996-01-01 A Polynomial Approach to Linear Algebra is a text that is heavily biased toward functional methods In using the shift operator as a central object it makes linear algebra a perfect introduction to other areas of mathematics operator theory in particular This technique is very powerful as becomes clear from the analysis of canonical forms Frobenius Jordan and realization theory It should be emphasized that these functional methods are not only of great theoretical interest but lead to computational algorithms Quadratic forms are treated from the same perspective with emphasis on the important examples of Bezoutian and Hankel forms These topics are of great importance in applied areas such as signal processing numerical linear algebra and control theory Stability theory and system theoretic concepts up to realization theory are treated as an integral part of linear algebra Finally there is a chapter on Hankel norm approximation for the case of scalar rational functions which allows the reader to access ideas and results on the frontier of current research **A Polynomial Approach to Linear Algebra** Paul A. Fuhrmann, 2012-10-01 A Polynomial Approach to Linear Algebra is a text which is heavily biased towards functional methods In using the shift operator as a central object it makes linear algebra a perfect introduction to other areas of mathematics operator theory in particular This technique is very powerful as becomes clear from the analysis of canonical forms Frobenius Jordan It should be emphasized that these functional methods are not only of great theoretical interest but lead to computational algorithms Quadratic forms are treated from the same perspective with emphasis on the important examples of Bezoutian and Hankel forms These topics are of great importance in applied areas such as signal processing numerical linear algebra and control theory Stability theory and system theoretic concepts up to realization theory are treated as an integral part of linear algebra Finally there is a chapter on Hankel norm approximation for the case of scalar rational functions which allows the reader to access ideas and results on the frontier of current research *Linear Algebra* Fernando Barrera-Mora, 2023-05-08 There are numerous linear algebra textbooks available on the market Yet there are few that approach the notion of eigenvectors and eigenvalues across an operator's minimum polynomial In this book we take that approach This book provides a thorough introduction to the fundamental concepts of linear algebra The material is divided into two sections Part I covers fundamental concepts in linear algebra whereas Part II covers the theory of determinants the theory of eigenvalues and eigenvectors and fundamental results on Euclidean vector spaces We highlight that Consider hypothetical manufacturing models as a starting point for studying linear equations There are two novel ideas in the book the use of a production model to motivate the concept of matrix product and the use of an operator's minimal polynomial to describe the theory of eigenvalues and eigenvectors Several examples incorporate the use of SageMath allowing the reader to focus on conceptual comprehension rather than formulas *Solving Polynomial Equations* Alicia Dickenstein, Ioannis Z.

Emiris,2005-12-29 The subject of this book is the solution of polynomial equations that is systems of generally non linear algebraic equations This study is at the heart of several areas of mathematics and its applications It has provided the motivation for advances in different branches of mathematics such as algebra geometry topology and numerical analysis In recent years an explosive development of algorithms and software has made it possible to solve many problems which had been intractable up to then and greatly expanded the areas of applications to include robotics machine vision signal processing structural molecular biology computer aided design and geometric modelling as well as certain areas of statistics optimization and game theory and biological networks At the same time symbolic computation has proved to be an invaluable tool for experimentation and conjecture in pure mathematics As a consequence the interest in effective algebraic geometry and computer algebra has extended well beyond its original constituency of pure and applied mathematicians and computer scientists to encompass many other scientists and engineers While the core of the subject remains algebraic geometry it also calls upon many other aspects of mathematics and theoretical computer science ranging from numerical methods differential equations and number theory to discrete geometry combinatorics and complexity theory

The goal of this book is to provide a general introduction to modern mathematical aspects in computing with multivariate polynomials and in solving algebraic systems From Boolean Matrix Theory to Logical Dynamical Systems Haitao Li,Xinrong

Yang,Wenrong Li,2025-05-05 This book offers a systematic platform for the theory of Boolean matrix and its application in logical dynamical systems As a special kind of non negative matrix Boolean matrix has wide applications in graph theory discrete event system game theory clustering analysis and so on Due to the special operations between Boolean matrices there exist some special mathematical properties for Boolean polynomial and Boolean vector space which necessitate a general theory of Boolean matrix Furthermore logical dynamical systems have received recent attention from systems biology information security artificial intelligence etc The development of logical dynamical systems needs the mathematical foundation of Boolean matrix and logical matrix Therefore it is necessary to explore the relation between Boolean matrix theory and logical dynamical systems To our best knowledge there are no published books available on both Boolean matrix theory and logical dynamical systems This book aims to provide some recent insightful results to meet this gap It can serve as a textbook for scholars and students of mathematics cybernetics biology and artificial intelligence Especially the book is an important reference for readers who are interested in Boolean matrix theory and logical dynamical systems

Perspectives in Mathematical System Theory, Control, and Signal Processing Jan C. Willems,Shinji Hara,Yoshito Ohta,Hisaya Fujioka,2010-02-28 This Festschrift published on the occasion of the sixtieth birthday of Yutaka mamoto YY as he is occasionally casually referred to contains a collection of articles by friends colleagues and former Ph D students of YY They are a tribute to his friendship and his scientific vision and oeuvre which has been a source of inspiration to the authors Yutaka Yamamoto was born in Kyoto Japan on March 29 1950 He studied applied mathematics and general engineering

science at the Department of Applied Mathematics and Physics of Kyoto University obtaining the B S and M Sc degrees in 1972 and 1974 His M Sc work was done under the supervision of Professor Yoshikazu Sawaragi In 1974 he went to the Center for Mathematical System Theory of the University of Florida in Gainesville He obtained the M Sc and Ph D degrees both in Mathematics in 1976 and 1978 under the direction of Professor Rudolf Kalman

Algebraic Surfaces Lucian Badescu, 2013-03-14 The aim of this book is to present certain fundamental facts in the theory of algebraic surfaces defined over an algebraically closed field k of arbitrary characteristic The book is based on a series of talks given by the author in the Algebraic Geometry seminar at the Faculty of Mathematics University of Bucharest The main goal is the classification of nonsingular projective surfaces also called simply surfaces In the context of complex algebraic varieties the classification was obtained by Enriques and Castelnuovo Around 1960 Kodaira Kodl Kod2 revived and simplified the classification of complex algebraic surfaces and extended it to the case of compact analytic surfaces The problem of classifying surfaces in arbitrary characteristic remained open The first step in this direction was the purely algebraic proof valid in arbitrary characteristic due to Zariski Zarl Zar2 of Castelnuovo's criterion of rationality Then Mumford Mum3 Mum4 introduced several new ideas and the classification of surfaces in positive characteristic became possible Finally Bombieri and Mumford BM1 BM2 completed the classification of surfaces in arbitrary characteristic Their result was the following The same types of surfaces that exist in the case when k is the complex field arise in the general case if one sets aside certain pathologies that arise only in characteristic 2 or 3

Sheaves in Geometry and Logic Saunders MacLane, Ieke Moerdijk, 1994-10-27 Sheaves arose in geometry as coefficients for cohomology and as descriptions of the functions appropriate to various kinds of manifolds Sheaves also appear in logic as carriers for models of set theory This text presents topos theory as it has developed from the study of sheaves Beginning with several examples it explains the underlying ideas of topology and sheaf theory as well as the general theory of elementary toposes and geometric morphisms and their relation to logic

Fourier and Wavelet Analysis George Bachmann, Lawrence Narici, EDWARD BECKENSTEIN, 2012-12-06 globalized Fejér's theorem he showed that the Fourier series for any $f \in L^1$ converges C_1 to f a.e The desire to do this was part of the reason that Lebesgue invented his integral the theorem mentioned above was one of the first uses he made of it Sec 4 18 Denjoy with the same motivation extended the integral even further Concurrently the emerging point of view that things could be decomposed into waves and then reconstituted infused not just mathematics but all of science It is impossible to quantify the role that this perspective played in the development of the physics of the nineteenth and twentieth centuries but it was certainly great Imagine physics without it We develop the standard features of Fourier analysis Fourier series Fourier transform Fourier sine and cosine transforms We do NOT do it in the most elegant way Instead we develop it for the reader who has never seen them before We cover more recent developments such as the discrete and fast Fourier transforms and wavelets in Chapters 6 and 7 Our treatment of these topics is strictly introductory for the novice Wavelets for idiots To do them properly especially

the applications would take at least a whole book

Quantum Calculus Victor Kac, Pokman Cheung, 2012-12-06 Simply put quantum calculus is ordinary calculus without taking limits This undergraduate text develops two types of quantum calculi the q calculus and the h calculus As this book develops quantum calculus along the lines of traditional calculus the reader discovers with a remarkable inevitability many important notions and results of classical mathematics This book is written at the level of a first course in calculus and linear algebra and is aimed at undergraduate and beginning graduate students in mathematics computer science and physics It is based on lectures and seminars given by MIT Professor Kac over the last few years at MIT

Introduction to Hyperbolic Geometry Arlan Ramsay, Robert D. Richtmyer, 2013-03-09 This book is an introduction to hyperbolic and differential geometry that provides material in the early chapters that can serve as a textbook for a standard upper division course on hyperbolic geometry For that material the students need to be familiar with calculus and linear algebra and willing to accept one advanced theorem from analysis without proof The book goes well beyond the standard course in later chapters and there is enough material for an honors course or for supplementary reading Indeed parts of the book have been used for both kinds of courses Even some of what is in the early chapters would surely not be necessary for a standard course For example detailed proofs are given of the Jordan Curve Theorem for Polygons and of the decomposability of polygons into triangles These proofs are included for the sake of completeness but the results themselves are so believable that most students should skip the proofs on a first reading The axioms used are modern in character and more user friendly than the traditional ones The familiar real number system is used as an ingredient rather than appearing as a result of the axioms However it should not be thought that the geometric treatment is in terms of models this is an axiomatic approach that is just more convenient than the traditional ones

Higher-Dimensional Algebraic Geometry Olivier Debarre, 2013-03-09 Higher Dimensional Algebraic Geometry studies the classification theory of algebraic varieties This very active area of research is still developing but an amazing quantity of knowledge has accumulated over the past twenty years The author's goal is to provide an easily accessible introduction to the subject The book covers in the beginning preparatory and standard definitions and results moves on to discuss various aspects of the geometry of smooth projective varieties with many rational curves and finishes in taking the first steps towards Mori's minimal model program of classification of algebraic varieties by proving the cone and contraction theorems The book is well organized and the author has kept the number of concepts that are used but not proved to a minimum to provide a mostly self contained introduction to graduate students and researchers

Finite Möbius Groups, Minimal Immersions of Spheres, and Moduli Gabor Toth, 2012-12-06 Spherical soap bubbles isometric minimal immersions of round spheres into round spheres or spherical immersions for short belong to a fast growing and fascinating area between algebra and geometry This theory has rich interconnections with a variety of mathematical disciplines such as invariant theory convex geometry harmonic maps and orthogonal multiplications In this book the author traces the development of the study of spherical minimal immersions over

the past 30 plus years including Takahashi's 1966 proof regarding the existence of isometric minimal immersions DoCarmo and Wallach's study of the uniqueness of the standard minimal immersion in the seventies and more recently he examines the variety of spherical minimal immersions which have been obtained by the equivariant construction as $SU(2)$ orbits first used by Mashimo in 1984 and then later by DeTurck and Ziller in 1992 In trying to make this monograph accessible not just to research mathematicians but mathematics graduate students as well the author included sizeable pieces of material from upper level undergraduate courses additional graduate level topics such as Felix Klein's classic treatise of the icosahedron and a valuable selection of exercises at the end of each chapter Introduction to the Mori Program Kenji

Matsuki,2013-04-17 Mori's Program is a fusion of the so called Minimal Model Program and the Iitaka Program toward the biregular and or birational classification of higher dimensional algebraic varieties The author presents this theory in an easy and understandable way with lots of background motivation Prerequisites are those covered in Hartshorne's book Algebraic Geometry This is the first book in this extremely important and active field of research and will become a key resource for graduate students wanting to get into the area **A First Course in Harmonic Analysis** Anton Deitmar,2013-04-17 This

book is intended as a primer in harmonic analysis at the undergraduate level All the central concepts of harmonic analysis are introduced without too much technical overload For example the book is based entirely on the Riemann integral instead of the more demanding Lebesgue integral Furthermore all topological questions are dealt with purely in the context of metric spaces It is quite surprising that this works Indeed it turns out that the central concepts theory can be explained using very little of this beautiful and useful technical background The first aim of this book is to give a lean introduction to Fourier analysis leading up to the Poisson summation formula The second aim is to make the reader aware of the fact that both principal incarnations of Fourier Theory the Fourier series and the Fourier transform are special cases of a more general theory arising in the context of locally compact abelian groups The third goal of this book is to introduce the reader to the techniques used in harmonic analysis of noncommutative groups These techniques are explained in the context of matrix groups as a principal example **Intuitive Combinatorial Topology** V.G. Boltyanskii,V.A. Efremovich,2001-03-30

Topology is a relatively young and very important branch of mathematics which studies the properties of objects that are preserved through deformations twistings and stretchings This book deals with the topology of curves and surfaces as well as with the fundamental concepts of homotopy and homology and does this in a lively and well motivated way This book is well suited for readers who are interested in finding out what topology is all about *An Invitation to Algebraic Geometry* Karen E. Smith,Lauri Kahanpää,Pekka Kekäläinen,William Traves,2013-03-09 The aim of this book is to describe the underlying principles of algebraic geometry some of its important developments in the twentieth century and some of the problems that occupy its practitioners today It is intended for the working or the aspiring mathematician who is unfamiliar with algebraic geometry but wishes to gain an appreciation of its foundations and its goals with a minimum of prerequisites Few algebraic

prerequisites are presumed beyond a basic course in linear algebra *A Concise Introduction to Mathematical Logic*
Wolfgang Rautenberg, 2006-09-28 While there are already several well known textbooks on mathematical logic this book is
unique in treating the material in a concise and streamlined fashion This allows many important topics to be covered in a one
semester course Although the book is intended for use as a graduate text the first three chapters can be understood by
undergraduates interested in mathematical logic The remaining chapters contain material on logic programming for
computer scientists model theory recursion theory Godel's Incompleteness Theorems and applications of mathematical logic
Philosophical and foundational problems of mathematics are discussed throughout the text

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