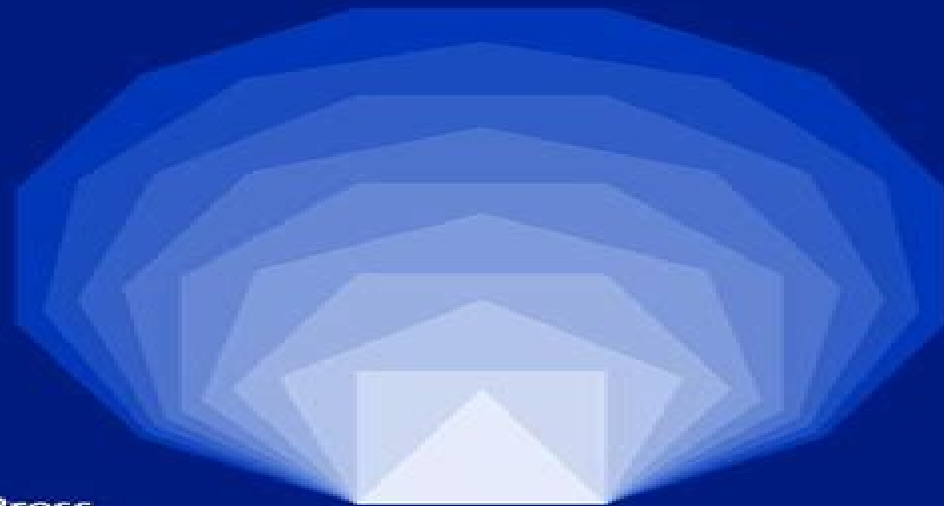


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SECOND EDITION

Nicholas A. Loehr



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Bruce Cooperstein, 2016-04-19 Advanced Linear Algebra focuses on vector spaces and the maps between them that preserve their structure linear transformations It starts with familiar concepts and then slowly builds to deeper results Along with including many exercises and examples each section reviews what students need to know before studying the material The book first introduces vector spaces over fields as well as the fundamental concepts of linear combinations span of vectors linear independence basis and dimension After covering linear transformations it discusses the algebra of polynomials with coefficients in a field concentrating on results that are consequences of the division algorithm The author then develops the whole structure theory of a linear operator on a finite dimensional vector space from a collection of some simple results He also explores the entire range of topics associated with inner product spaces from the Gram Schmidt process to the spectral theorems for normal and self adjoint operators on an inner product space The text goes on to rigorously describe the trace and determinant of linear operators and square matrices The final two chapters focus on bilinear forms and tensor products and related material Designed for advanced undergraduate and beginning graduate students this textbook shows students the beauty of linear algebra It also prepares them for further study in mathematics **Advanced Linear Algebra** Hugo Woerdeman, 2015-12-23 Advanced Linear Algebra features a student friendly approach to the theory of linear algebra The author's emphasis on vector spaces over general fields with corresponding current applications sets the book apart He focuses on finite fields and complex numbers and discusses matrix algebra over these fields The text then proceeds to cover vector spaces in depth Also discussed are standard topics in linear algebra including linear transformations Jordan canonical

form inner product spaces spectral theory and as supplementary topics dual spaces quotient spaces and tensor products Written in clear and concise language the text sticks to the development of linear algebra without excessively addressing applications A unique chapter on How to Use Linear Algebra is offered after the theory is presented In addition students are given pointers on how to start a research project The proofs are clear and complete and the exercises are well designed In addition full solutions are included for almost all exercises

Advanced Linear Algebra Nicholas Loehr, 2014-04-10

Designed for advanced undergraduate and beginning graduate students in linear or abstract algebra Advanced Linear Algebra covers theoretical aspects of the subject along with examples computations and proofs It explores a variety of advanced topics in linear algebra that highlight the rich interconnections of the subject to geometry algebra *A Concise Text on Advanced Linear Algebra* Yisong Yang, 2015 This engaging well motivated textbook helps advanced undergraduate students to grasp core concepts and reveals applications in mathematics and beyond

Introduction to Linear and Matrix Algebra Nathaniel Johnston, 2021-05-19 This textbook emphasizes the interplay between algebra and geometry to motivate the study of linear algebra Matrices and linear transformations are presented as two sides of the same coin with their connection motivating inquiry throughout the book By focusing on this interface the author offers a conceptual appreciation of the mathematics that is at the heart of further theory and applications Those continuing to a second course in linear algebra will appreciate the companion volume Advanced Linear and Matrix Algebra Starting with an introduction to vectors matrices and linear transformations the book focuses on building a geometric intuition of what these tools represent Linear systems offer a powerful application of the ideas seen so far and lead onto the introduction of subspaces linear independence bases and rank Investigation then focuses on the algebraic properties of matrices that illuminate the geometry of the linear transformations that they represent Determinants eigenvalues and eigenvectors all benefit from this geometric viewpoint Throughout Extra Topic sections augment the core content with a wide range of ideas and applications from linear programming to power iteration and linear recurrence relations Exercises of all levels accompany each section including many designed to be tackled using computer software Introduction to Linear and Matrix Algebra is ideal for an introductory proof based linear algebra course The engaging color presentation and frequent marginal notes showcase the author's visual approach Students are assumed to have completed one or two university level mathematics courses though calculus is not an explicit requirement Instructors will appreciate the ample opportunities to choose topics that align with the needs of each classroom and the online homework sets that are available through WeBWorK

[Advanced Linear Algebra](#) Nicholas A. Loehr, 2024-06-21 Designed for advanced undergraduate and beginning graduate students in linear or abstract algebra Advanced Linear Algebra covers theoretical aspects of the subject along with examples computations and proofs It explores a variety of advanced topics in linear algebra that highlight the rich interconnections of the subject to geometry algebra analysis combinatorics numerical computation and many other areas of mathematics The author begins with chapters

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Algebra Steven Roman,2013-03-09 This book is a thorough introduction to linear algebra for the graduate or advanced undergraduate student Prerequisites are limited to a knowledge of the basic properties of matrices and determinants However since we cover the basics of vector spaces and linear transformations rather rapidly a prior course in linear algebra even at the sophomore level along with a certain measure of mathematical maturity is highly desirable Chapter 0 contains a summary of certain topics in modern algebra that are required for the sequel This chapter should be skimmed quickly and then used primarily as a reference Chapters 1 3 contain a discussion of the basic properties of vector spaces and linear transformations Chapter 4 is devoted to a discussion of modules emphasizing a comparison between the properties of modules and those of vector spaces Chapter 5 provides more on modules The main goals of this chapter are to prove that any two bases of a free module have the same cardinality and to introduce noetherian modules However the instructor may simply skim over this chapter omitting all proofs Chapter 6 is devoted to the theory of modules over a principal ideal domain establishing the cyclic decomposition theorem for finitely generated modules This theorem is the key to the structure theorems for finite dimensional linear operators discussed in Chapters 7 and 8 Chapter 9 is devoted to real and complex inner product spaces **Advanced Linear and Matrix Algebra** Nathaniel Johnston,2021-05-19 This textbook emphasizes the interplay between algebra and geometry to motivate the study of advanced linear algebra techniques Matrices and linear transformations are presented as two sides of the same coin with their connection motivating inquiry throughout the book Building on a first course in linear algebra this book offers readers a deeper understanding of abstract structures matrix decompositions multilinearity and tensors Concepts draw on concrete examples throughout offering accessible pathways to advanced techniques Beginning with a study of vector spaces that includes coordinates isomorphisms orthogonality and projections the book goes on to focus on matrix decompositions Numerous decompositions are explored including the Shur

spectral singular value and Jordan decompositions In each case the author ties the new technique back to familiar ones to create a coherent set of tools Tensors and multilinearity complete the book with a study of the Kronecker product multilinear transformations and tensor products Throughout Extra Topic sections augment the core content with a wide range of ideas and applications from the QR and Cholesky decompositions to matrix valued linear maps and semidefinite programming Exercises of all levels accompany each section Advanced Linear and Matrix Algebra offers students of mathematics data analysis and beyond the essential tools and concepts needed for further study The engaging color presentation and frequent marginal notes showcase the author's visual approach A first course in proof based linear algebra is assumed An ideal preparation can be found in the author's companion volume Introduction to Linear and Matrix Algebra

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