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Linear algebra is a living, active branch of mathematical research which is central to almost all other areas of mathematics and which has important applications in all branches of the physical and social sciences and in engineering. However, in recent years the content of linear algebra courses

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Probably most of us think that the core of linear algebra is about linear transformations of vector spaces over the real or complex fields. The author's approach is more abstract. For example, he begins with vector spaces and algebras over an arbitrary field and works throughout — whenever possible — over an arbitrary field.

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Linear Algebra Igor Yanovsky, 2005 7 1.6 Linear Maps and Subspaces $L: V \rightarrow W$ is a linear map over F . The kernel or nullspace of L is $\ker(L) = N(L) = \{x \in V:$

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Know $L(x) = 0$ The image or range of L is $\text{im}(L) = R(L) = L(V) = \{L(x) \mid x \in V\}$ Lemma. $\ker(L)$ is a subspace of V and $\text{im}(L)$ is a subspace of W . Proof. Assume that $f_1, f_2 \in F$ and that $x_1, x_2 \in \ker(L)$, then $L(f_1 x_1 + f_2 x_2) =$

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The first two Chapters of the text cover standard beginning topics in linear algebra: matrices, linear systems, Gaussian elimination, inverses of matrices and the LDU decomposition. In this material, we manage to define, $a = b_1 \quad b_2 = b$

FUNDAMENTALS OF LINEAR ALGEBRA

Linear algebra is a living, active branch of mathematics which is central to almost all other areas of

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mathematics, both pure and applied, as well as to computer science, to the physical, biological, and social sciences, and to engineering.

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Introduction. Linear algebra is a living, active branch of mathematics which is central to almost all other areas of mathematics, both pure and applied, as well as computer science, the physical and social sciences, and engineering. It entails an extensive corpus of theoretical results as well as a large body of computational techniques.

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Linear algebra is a living, active branch of mathematics which is central to almost all other areas of mathematics, both pure and applied, as well as to computer science, to the physical, biological, and social sciences, and to engineering. It encompasses an extensive corpus of theoretical results as well as a large and rapidly-growing body of computational

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techniques.

Linear algebra is a living, active branch of mathematics which is central to almost all other areas of mathematics, both pure and applied, as well as to computer science, to the physical, biological, and social sciences, and to engineering. It encompasses an extensive corpus of theoretical results as well as a large and rapidly-growing body of computational techniques. Unfortunately, in the past decade, the content of linear algebra courses required to complete an undergraduate degree in mathematics has been

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depleted to the extent that they fail to provide a sufficient theoretical or computational background. Students are not only less able to formulate or even follow mathematical proofs, they are also less able to understand the mathematics of the numerical algorithms they need for applications. Certainly, the material presented in the average undergraduate course is insufficient for graduate study. This book is intended to fill the gap which has developed by providing enough theoretical and computational material to allow the advanced undergraduate or beginning graduate student to overcome this deficiency and be able to work independently or in advanced courses. The book is intended to be used either as a self-study

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Key guide, a textbook for a course in advanced linear algebra, or as a reference book. It is also designed to prepare a student for the linear algebra portion of prelim exams or PhD qualifying exams. The volume is self-contained to the extent that it does not assume any previous formal knowledge of linear algebra, though the reader is assumed to have been exposed, at least informally, to some of the basic ideas and techniques, such as manipulation of small matrices and the solution of small systems of linear equations over the real numbers. More importantly, it assumes a seriousness of purpose, considerable motivation, and a modicum of mathematical sophistication on the part of the reader. In the latest edition, new major theorems have been

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added, as well as many new examples. There are over 130 additional exercises and many of the previous exercises have been revised or rewritten. In addition, a large number of additional biographical notes and thumbnail portraits of mathematicians have been included.

The Student Solutions Manual supports students in their independent study and review efforts, using it alongside the main text *Linear Algebra* by Carlen.

This book rigorously deals with the abstract theory and, at the same time, devotes considerable space to the numerical and computational aspects of linear

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Algebra. It features a large number of thumbnail portraits of researchers who have contributed to the development of linear algebra as we know it today and also includes over 1,000 exercises, many of which are very challenging. The book can be used as a self-study guide; a textbook for a course in advanced linear algebra, either at the upper-class undergraduate level or at the first-year graduate level; or as a reference book.

A groundbreaking introduction to vectors, matrices, and least squares for engineering applications, offering a wealth of practical examples.

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Basic definitions, explorations of principles and theorems, and solved problems provide a theoretical framework and computational tool for understanding linear algebra

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Linear Algebra Problem Book can be either the main course or the dessert for someone who needs linear algebra and today that means every user of mathematics. It can be used as the basis of either an official course or a program of private study. If used as a course, the book can stand by itself, or if so desired, it can be stirred in with a standard linear algebra course as the seasoning that provides the interest, the challenge, and the motivation that is needed by experienced scholars as much as by beginning students. The best way to learn is to do, and the purpose of this book is to get the reader to DO linear algebra. The approach is Socratic: first ask a question,

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then give a hint (if necessary), then, finally, for security and completeness, provide the detailed answer.

Basic textbook covers theory of matrices and its applications to systems of linear equations and related topics such as determinants, eigenvalues, and differential equations. Includes numerous exercises.

Linear Algebra for the Young Mathematician is a careful, thorough, and rigorous introduction to linear algebra. It adopts a conceptual point of view, focusing on the notions of vector spaces and linear transformations, and it takes pains to provide proofs

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that bring out the essential ideas of the subject. It begins at the beginning, assuming no prior knowledge of the subject, but goes quite far, and it includes many topics not usually treated in introductory linear algebra texts, such as Jordan canonical form and the spectral theorem. While it concentrates on the finite-dimensional case, it treats the infinite-dimensional case as well. The book illustrates the centrality of linear algebra by providing numerous examples of its application within mathematics. It contains a wide variety of both conceptual and computational exercises at all levels, from the relatively straightforward to the quite challenging. Readers of this book will not only come away with the knowledge that the results of

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Linear algebra are true, but also with a deep understanding of why they are true.

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