

Linear algebra is one of the most important branches of mathematics - important because of its many applications to other areas of mathematics, and important because it contains a wealth of ideas and results which are basic to pure mathematics. This book gives an introduction to linear algebra, and develops and proves its fundamental properties and theorems taking a pure mathematical approach - linear algebra contains some fine pure mathematics. Its main topics include: vector spaces and algebras, dimension, linear maps, direct sums, and (briefly) exact sequences; matrices and their connections with linear maps, determinants (properties proved using some elementary group theory), and linear equations; Cayley-Hamilton and Jordan theorems leading to the spectrum of a linear map - this provides a geometric-type description of these maps; Hermitian and inner product spaces introducing some metric properties (distance, perpendicularity etc.) into the theory, also unitary and orthogonal maps and matrices; applications to finite fields, mathematical coding theory, finite matrix groups, the geometry of quadratic forms, quaternions and Cayley numbers, and some basic group representation theory; and, a large number of examples, exercises and problems are provided. It gives answers and/or sketch solutions to all of the problems in an appendix - some of these are theoretical and some numerical, both types are important. No particular computer algebra package is discussed but a number of the exercises are intended to be solved using one of these packages chosen by the reader. The approach is pure-mathematical, and the intended readership is undergraduate mathematicians, also anyone who requires a more than basic understanding of the subject. This book will be most useful for a second course in linear algebra, that is for students that have seen some elementary matrix algebra.

Minimalismus trifft Kleidung: In 4 Wochen zum Kleiderschrank voller Lieblingsstücke (German Edition), The Psychodynamics of Family Life : Diagnosis and Treatment of Family Relationships (Hardcover), Microbiology: A Human Perspective, Too Slow to See (Secret Worlds), The End of Normal: The Great Crisis and the Future of Growth, Ifornia, Second St Pamphlets: Second Series, Simon, ID Leon Simon, ad the Landman, No-Ifs, the Spiritua Revival (Classic Reprint), The Will: A Novel, Saving Jane Austen: A Comedie Grotesque,

The title and the cover make the nature of this book fairly clear. The title specifies that linear algebra will be treated as a part of pure. Linear algebra is one of the most important branches of mathematics - important because of its many applications to other areas of mathematics, and important.

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