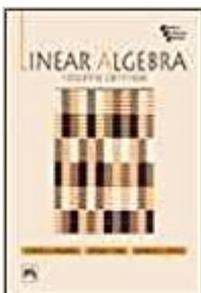


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Linear Algebra 4th Edition



Synopsis

4th Edition printed by Prentice Hall India. Printed on non glossy paper. Same content as the regular version.

Book Information

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Customer Reviews

A few introductory comments are in order: (1) This is **not** intended to be a first look at the subject of linear algebra, at least from the "computational side". (2) This is an undergraduate level text, though typically students will not encounter this material before their junior or senior years. (3) There is some overlap with a graduate level course in linear algebra, though this book is not comprehensive enough for a course at that level. Ok, now that we've gotten that out of the way... We used this as the primary textbook as a cross-listed advanced undergraduate/beginning graduate course I took in linear algebra. I had to supplement this book with outside reading/assignments to fulfill the balance of the course requirements. Contrary to what you might expect, you do not need an "introductory linear algebra course" (read that as "linear algebra for engineers") to successfully navigate this book. Actually, much (not all) of the material covered in this book should be discussed in any decent undergraduate course in ordinary differential equations (Boyce & DiPrima's ODE text makes a decent reference). Here, you'll find that the emphasis is on learning the theoretical side of linear algebra. While there is a chapter (Chapter 3) on basic matrix algebra (wholly unnecessary in my opinion), the main use of matrices here is to express linear operators in a form more suited for computations, e.g., the determination of eigenvalues and eigenvectors. Right away, in Chapter 1, vector spaces are introduced and many familiar (some unfamiliar) examples are given. Just as in an abstract algebra course, you define a list of axioms for vector spaces (later, inner product spaces) and see what you can do with them...quite a lot, as it turns out!

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