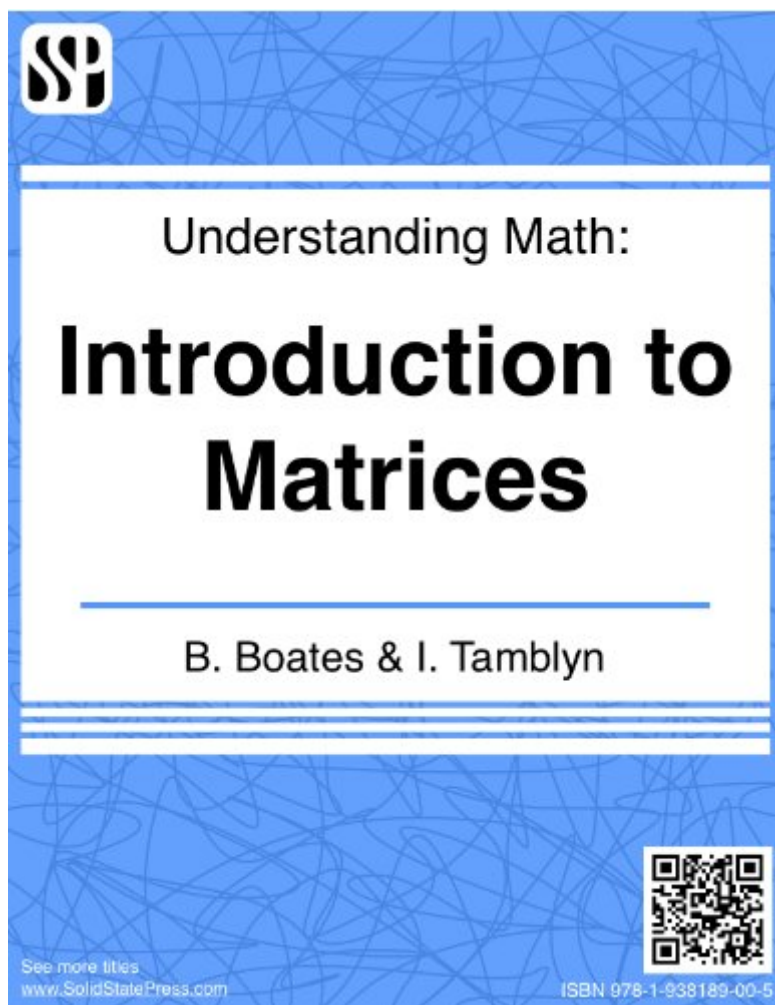


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# Understanding Math - Introduction To Matrices



## Synopsis

In this book, we introduce matrices and discuss their basic properties. The concepts of matrix addition, subtraction, and multiplication are introduced in a clear, step-by-step manner. Many examples are given throughout to aid in the understanding and execution of new concepts, sometimes making use of color to illustrate more complicated ideas. Square, diagonal, identity, and zero matrices are also discussed and explained at length with several examples. The goal of this book is to teach students a practical way of thinking about what matrices are and how they work, in a way suitable for all students. We strongly believe in teaching by examples, and that repetition is the best way to internalize new ideas. Each example intends to guide the student through the thinking process without skipping steps and touches on all of the new material presented. Now available in Spanish: Conceptos matemáticos - Introducción a las matrices ([http://www..com/Conceptos-matem%C3%A1ticos-Introducci%C3%B3n-matrices-ebook/dp/B00811WWAG/ref=sr\\_1\\_1?ie=UTF8&qid=1337300188&sr=8-1](http://www..com/Conceptos-matem%C3%A1ticos-Introducci%C3%B3n-matrices-ebook/dp/B00811WWAG/ref=sr_1_1?ie=UTF8&qid=1337300188&sr=8-1))

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## Customer Reviews

I am taking intermediate statistics in business school. Almost no one in the class has had linear

algebra, but the professor doesn't have time to get into the background. I have been getting hung up on details when the textbook and software documentation, where matrices are described in the equations. This book (pamphlet, really) provides the equivalent of a half-hour lecture on the topic -- just enough to give me a framework for imagining what's going on in the equations. It answers the following: What is a matrix? How does the notation work? Which matrices can you add, subtract and multiply, and how do the calculations work? What are diagonal matrices, vectors, identity matrices and zero matrices, and what are their special properties? Note, the author explains that "the short answer" is that you can't do division with matrices, but that there's a thing called inversion where you multiply a matrix by its inverse. Inversion is what passes for division in the world of matrices. That's all you're going to get on that topic. So, if you need to know about what makes one matrix a factor of another matrix (e.g., if you're learning about factor analysis), this book isn't going to cover your needs. However, it's a clearly written, super-fast introduction for a good price. I read the thing in less than 30 minutes and feel like I have a decent enough handle on the topic to get back to reading my stats textbook.

Essentially when you get done you know all the identities for matrix operations. It is taught in a straight forward manner and you get to do some problems as you go. Now that I've read it tomorrow I will do a self test by redoing the problems and after that I'll have a quick matrix reference booklet. It is short so microwave some macaroni and cheese pour yourself a nice red wine sit back and enjoy (unless you are under 18).

Excellent, concise book that teaches the basics. This is readable within an hour or two max. If you go through the examples with the author, you will understand all of the basic matrix algebra maths (I stress 'basic'). It does a great job of that for a very reasonable price. A few immaterial grammatical errors, but the presentation style on my MBP Kindle is fantastic.

I wanted a book that was easy to follow that covered the basics matrix math. This book satisfied my need. I haven't thought about the subject for many years. As a tutorial, it was very easy to follow.

I enjoyed reading this book. It was a good review on matrices to get me re-started in the topic. I like the illustrations and examples. I wish I could see something on vectors.

As a super-quick review of the basics of Matrices, this was well worth the money. It does not go

much beyond the very basics of Matrix rules, but still very worthwhile.

You won't be overwhelmed with lots of words or be shown some mathematical proofs and constructs, but you will be able to do some very simple operations with matrices.

A thorough treatment of introductory material in Matrix algebra. Very brief, only about 30 pages, but pretty well done I think.

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