INTRODUCTION TO LINEAR ALGEBRA, FIFTH EDITION BY GILBERT STRANG

Introduction to
LINEAR ALGEBRA
FIFTH EDITION

$x=y+z$

$Ax=b$

$Ay=b$

$Az=0$

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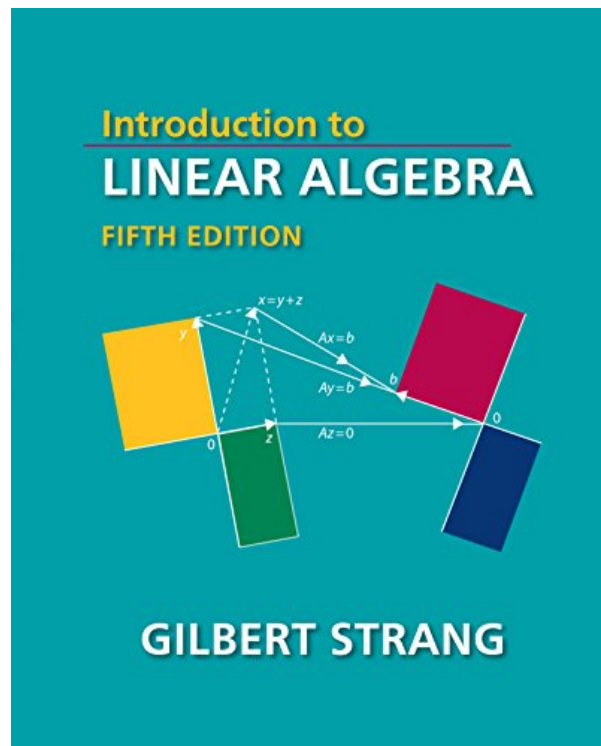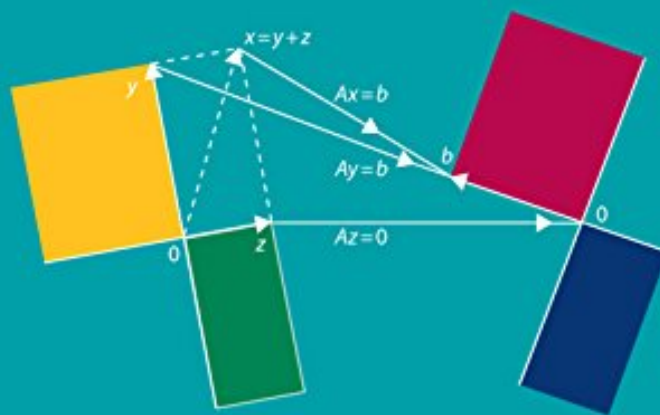
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About the Author
Gilbert Strang is a Professor of Mathematics at Massachusetts Institute of Technology and an Honorary Fellow of Balliol College, of the University of Oxford. His current research interests include linear algebra, wavelets and filter banks, applied mathematics, and engineering mathematics. He is the author or co-author of eight textbooks. Professor Strang served as SIAM s president from 1999-2000, chaired the US National Committee on Mathematics from 2003-2004, and won the John von Neumann Medal of the U.S. Association of Computational Mechanics in 2005 and the Henrici Prize in 2007. He is a Fellow of the American Academy of Arts and Sciences and a member of the National Academy of Sciences.

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Gilbert Strang's textbooks have changed the entire approach to learning linear algebra -- away from abstract vector spaces to specific examples of the four fundamental subspaces: the column space and nullspace of A and A'.

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About the Author
Gilbert Strang is a Professor of Mathematics at Massachusetts Institute of Technology and an Honorary Fellow of Balliol College, of the University of Oxford. His current research interests include linear algebra, wavelets and filter banks, applied mathematics, and engineering mathematics. He is the author or co-author

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Indispensable resource for any data scientist
By Dan D. Gutierrez
My bookshelves are lined with materials that support my work in data science and machine learning. I have a large section of mathematics books including several on the subject of linear algebra. For many years my "go to" text on linear algebra was an old 2nd edition of MIT Professor Gilbert Strang's seminal book on the subject that I picked up at a swap meet. To my surprise, the good professor recently sent me a copy of his latest and greatest 5th edition of "Introduction to Linear Algebra" (Wellesley-Cambridge Press).

I found the new edition to be even better than previous editions. For one it is now 574 pages versus my old copy's 374. I also found the book to be impressively re-tooled for educational purposes. The chapters contain useful "Review of the Key Ideas" sections, worked examples, and well thought out problem sets (with special "Challenge Problems" for those who want to dive deeper). Gilbert Strang's textbooks have changed the entire approach to learning linear algebra – away from abstract vector spaces to specific examples of the four fundamental subspaces: the column space and nullspace of A and A'.

The chapters directly apply to the needs of data scientists wishing to establish a firm foundation for how machine learning happens behind the scenes. All chapters are superbly crafted, but my favorites are: Chapter 7 because SVD plays an important role in Principal Component Analysis for dimensionality reduction as well as PCA regression; Chapter 10 as it enhances the math subject matter with practical applications; Chapter 11 which is a nice adjunct to the pure math content and reminds me of portions of the old "Numerical Methods" (Prentice-Hall) text by G. Dahlquist et al that I used in my early days of data science; and Chapter 12 which is perfect for data scientists who want to see the relationship with statistics and probability.

Strang's new edition is a great launching point for newbies as well as practicing data scientists to gain a foothold in the theory behind the technology. If you feel a bit insecure with your mathematical prowess when reading the statistical leaning bible "Elements of Statistical Learning" by Hastie, Tibshirani and Friedman (a group of high-profile Stanford researchers), then Strang's book is the best way to lay a firm foundation.

Gilbert Strang is a Professor of Mathematics at Massachusetts Institute of Technology and an Honorary Fellow of Balliol College, of the University of Oxford. His current research interests include linear algebra, wavelets and filter banks, applied mathematics, and engineering mathematics. He is the author or co-author of eight textbooks. He is a Fellow of the American Academy of Arts and Sciences and a member of the National Academy of Sciences.

The book also comes with an excellent web resource which includes downloadable sections (PDFs) of many chapters, a complete chapter-by-chapter solutions manual for the problem sets, and practice exam questions. The book is used as the textbook for MIT's undergrad linear algebra course 18.06. It is also the book used in MIT's Open Courseware class on the subject, complete with video lectures. This means you can take a full-fledged MIT course to help you become well-versed with this important subject matter. I highly recommend this book for any up-and-coming data scientist.

I do have a big complaint with this new book! It's going to sap a lot of time from my busy schedule because with such a great learning resource in my hands, I know myself, I'm going to spend time "re-learning" the subject for the nth time, doing the problem sets, and thinking hard about how important math is to a firm understanding of machine learning. I don't have time for this!

3 of 3 people found the following review helpful.
Deserves the money spent
By H. RAGHEB
I never thought that linear algebra is that useful in real life. I was enrolled in a master program and my first course was computer vision. There were massive amount of math and mostly were linear algebra. I felt like I lacked all enough comfort with linear algebra and thought that I could have understood many topics much better if I got a good book. Hell, this book is awesome. It has all what I need specially SVD and PCA. I don't care much about solving problems as to understand the meaning of linear algebra and its logic. I must admit that prior reading this book I had good grasp of what a matrix is and how we can formulate our data as a matrix, which opened the world of applications I can apply all the techniques of linear algebra on. Dr.Gilbert is a man who knows how to deliver high quality information to you, but you as a reader must also have the role of analyzing what you read and try to find an application of interest in your head where you can practice what you read. I looked at 10s of books before deciding to buy this one, and the only book which I felt comfortable with was this one. The only problem is that this book is expensive, but in my opinion, this books deserves every dollar and is a must in any machine lerning, artificial intelligence, computer vision, game programer or any field engineer library

89 of 92 people found the following review helpful.
Great for the Newcomer, Probably too Slow for Familiar
By jdg
I bought this book (the 3rd edition of it) my sophomore year as an undergraduate engineer. I read a couple of sections and then got distracted and didn't pick the book up again until my first year as a graduate student. Before reading this book, my experience with linear algebra had been modest (much to the fault of my undergraduate curriculum), but I soon realized how important linear algebra is to an engineer.

This book was wonderful! I read nearly the entire thing over the course of a month (working a large number of the problems), and since then have referenced it often. The chapter on Eigenvalues, Linear Transformations, and Applications are extremely useful (in the 3rd edition 6,7, and 8). Strang's style is refreshing in the world of dry math books; he really gives you the intuition and excitement behind the math. I find this invaluable as an engineer.

There is a downside to this: the book is wordy for a math book and the key results scattered throughout the text. For this reason I would highly recommend this book for someone without much background in linear algebra, but probably would not recommend it to someone looking for a refresher--a more succinct book would probably be more appropriate. I would also not recommend this book for someone interested in formal mathematics: the book claims informality, and it certainly is informal. That being said, most of the essential proofs are there in spirt, just not set down formally like many other math texts I have used.

I gave the book 5 stars because, although it isn't for everybody (no book can be), it is exactly what it claims to be: an INTRODUCTION to linear algebra, and an excellent one at that.

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