

GILBERT STRANGS LINEAR ALGEBRA AND ITS APPLICATIONS 4TH EDITION pdf

1: Pocket Guide to Clinical Microbiology () by Gilbert Strang

This text was written to help our teaching of linear algebra keep up with the enormous importance of this subject—“which just continues to grow. One step was certainly possible and desirable—” to add new problems.

While the mathematics is there, the effort is not all concentrated on proofs. He explains concepts, rather than deduces. This book is written in an informal and personal style and teaches real mathematics. The gears change in Chapter 2 as students reach the introduction of vector spaces. Throughout the book, the theory is motivated and reinforced by genuine applications, allowing pure mathematicians to teach applied mathematics. This book presents an applied treatment of the subject appropriate for a first course. The goal of the book is to provide the reader with an intuitive understanding of the material. Geometrical and visual arguments are used throughout. Coordinates, matrices, and numerical computations are emphasized. Formal proofs are not provided for most results. This book is geared toward those doing scientific computations involved in solving real world problems. Linear algebra is the workhorse of modern applied mathematics. Any book that skimps on these topics is out of touch with reality and in my opinion doing a disservice to those who are paying big bucks for a technical education. This book is the first step toward gaining an understanding of these issues. This book is practical in the sense that real world problems require numerical solution described in terms of a basis-dependent finite-dimensional representation of the problem. Those who require a second course in Linear Algebra covering Jordan Forms, the theory of linear operators, and more advanced material will not have to unlearn anything from this book. In fact this book is a good stepping stone to further study. After all, how can anyone understand or appreciate a formal abstract treatment of this material before one has a firm grasp of what is being abstracted? All this material is available to the general public for free. This set of course material is excellent and provides anyone who has interest in this subject a unique opportunity to self-learn linear algebra. Strang has done the scientific and engineering communities a big service by writing this book and posting his video lectures and course materials. Although that text is geared at slightly a lower level, I like this text Linear Algebra and its Applications better as a learning tool. The Intro text is slightly more disjoint in its presentation and seems to leave more for the reader to discover rather than just presenting the information. The current 4th edition of Linear Algebra and its Applications has been updated relative to the 3rd edition I learned the material from the 3rd edition and I actually feel, on the whole, the 3rd edition was the optimal edition. The 3rd edition serves as a better textbook and learning tool as it is geared at a slightly more rigorous level than the 4th edition and is written with a clearer narrative. Meyer is more of a traditional text and provides material for both a first and second course on applied linear algebra with more emphasis on a second course. Also, a more rigorous treatment of introductory vector space theory written by Jim Hefferon is available for free download from his website and provides a solid "proof based" treatment of introductory linear algebra. A solid explanation of linear algebra By Tinam on Feb 20, First off, this book is not well-suited for students who have never seen a matrix and have not yet mastered the basic calculations of how to multiply and add matrices, or for those who have never seen Gaussian elimination. There are many other textbooks that do nothing but provide you with exercise after exercise of manual computations of inverses and determinants that are better suited to that purpose. That said, for anyone taking a course in linear algebra who actually wants to know more than the rote mechanics of matrix multiplication and Gaussian elimination, this book provides a succinct explanation of what matrices actually represent. I came across it as a graduate student studying for doctoral qualifying examinations. It was a godsend! After that, I had no problem passing my qualifying exam in linear algebra! Unsurpassed clarity - and this book just got better! So give him some credit, for starters This book is inimitable in its clarity and in how it yields so much insight. I have many books on Linear Algebra and I think this book is worth its weight in gold. I know of no other book that teaches the fundamental subspaces so well. The book covers standard material in Linear Algebra and then some and has a strong matrix-oriented flavor as opposed to a book giving an algebraic treatment - look for Valenza if you want that. The book is not

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abstract enough, not formal enough? No first treatment in Linear Algebra is or should be - that is Linear Algebra 2. Besides, matrices are pervasive in all fields of engineering, physics, applied math and other disciplines and later on the student will advance to even more complex issues such as numerical linear algebra and they simply cannot afford not to have seen the standard matrix treatment. I have used this book since the second edition. I believe this 4th edition is the best edition yet. Unlike some other books on the market, this new edition is a fully thought-through new edition Strang has been restructuring his book throughout all editions, ever making this more clear and insightful. Not bloat at all. I wholeheartedly recommend it. In fact, I believe you might get hurt using some other books that are on the market that do a very lousy job on teaching this subject such as Lay. This book is the gold standard. One can already see the writing style responsible for this. Strang is trying to clearly explain the ideas behind the various mechanical constructions, such as Gaussian elimination, in terms of their interpretation via matrices, and also explain practical aspects of the constructions such as cost of implementation, efficiency, and tendency to go "wrong" under roundoff. This is a lot of ideas to put in a few pages, and students used to books which merely display a mechanical operation, then drill it over and over, are likely stunned by the compactness of the presentation. They are not used to mulling a few succinct phrases for meaning, and taking their time. One student reviewer even complained that he had to reread after a few paragraphs, as if that were a bad thing. When he has made his point, he does not dwell on it, he moves on to enhance and deepen it. Probably you should work every single exercise in this book. This is obviously an excellent book from which to learn a lot of deep useful insights into linear algebra and its uses. For those who want more drill on the arithmetic involved, any other book will have a lot of that. But those books will not have the clarity and focus of this book, in most cases. I recommend it highly. This book is a mess

By Mathguy on May 20, In short: This book is not really that useful. I took off three stars for the material itself, and one star for the price which is way too expensive. If you are a mathematics major then this book will probably irritate you more than anything else. The most glaring fault of this book is the tendency of Strang to over complicate things. As some of the other reviewers have said, he is way too "chatty". It makes for a dis-jarring experience, constantly breaking the "fourth wall" repetitively. The exposition in each section feels incomplete, lacking motivation, and just a disjoint assortment of facts. Did he mention this? This issue felt way too common throughout the book. The whole book is like this: As a mathematician, this irritated me. A great book I used in an introductory theoretical linear algebra course was Tom M. A First Course, with Applications to Differential Equations most of which was extracted from his classic Calculus volumes. I used this book for two graduate level courses in Linear Algebra and found it wonderful. The second half is about eigenvalues and positive definiteness. The two halves are connected together by determinants. The book is very informally written and the author places emphasis on intuitive understanding rather than just proofs and equations. It seems to be a good book when read alone. But if one reads this book along with Prof. The best way to learn a new subject is to learn from an authentic source. I strongly believe in the complete authenticity of this book to enrich Linear Algebra knowledge in the reader. This book is an exceptional resource for any engineering student irrespective of the discipline. Strang writes more books on related areas and supplements them with his thoughtful video lectures. For the typical linear algebra student it is also very valuable, although for them Strang takes too much pleasure in non-essential tricks of the trade. For example, elementary matrix theory is crowned by a discussion of "the four fundamental subspaces". This is just one example of a beautiful application "tied up" in a lot of theory. As a second illustration, finding the n : Naturally there are also application that are very enjoyable in isolation, both nuggets

e. The fact that this book is written by a linear algebra user rather than a textbook author also has many other benefits besides the actual applications. To take but one example, it continues to puzzle us how so many linear algebra textbooks can fail to emphasise the interpretation of matrix multiplication in terms of linear combinations of columns

p. Johnson on Jun 07, "Linear Algebra and Its Applications" by Gilbert Strang is currently in its 4th edition, but this review is of the 2nd edition. The text is an excellent introduction to the subject. I was a new graduate student in applied mathematics in when I took a two-quarter sequence in linear

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algebra using this textbook. There are many other textbooks on the subject, virtually all of them in the traditional "Theorem-Proof with examples" format. It can sometimes be maddening to follow the logical flow in Strang, to separate the theorems from examples from observations. But the struggle is well worth it. Over the years I have referred to Strang on minor points when other texts left me confused.

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2: eBooks by Gilbert Strang

Gilbert Strang's Linear Algebra and Its Applications gives both an intuitive feel to linear algebra and the geometry that accompanies most linear algebra ideas in two or three dimensions, which can then be generalized to n dimensions.

The book is both useful as a reference and a self-taught manual of calculus. Introduction to Calculus; Chapter 2: Applications of the Derivative; Chapter 4: The Chain Rule; Chapter 5: Exponentials and Logarithms; Chapter 7: Introduction to Linear Algebra, Fourth Edition includes challenge problems to complement the review problems that have been highly praised in previous editions. The basic course is followed by seven applications: While the mathematics is there, the effort is not all concentrated on proofs. He explains concepts, rather than deduces. This book is written in an informal and personal style and teaches real mathematics. The gears change in Chapter 2 as students reach the introduction of Three parts cover basic linear algebra, the application to the linear and also nonlinear science of measurement, and the GPS system and its applications. This book has many strengths. It offers a variety of points of view. It is complete, helpful, and you may find an explanation that appeals to you. A popular article from June Topics covered include matrix multiplication, row reduction, matrix inverse, orthogonality and computation. The self-teaching book is loaded with examples and graphics and provides a wide array of probing problems, accompanying solutions, and a glossary. Introduction to Vectors; Chapter 2: Solving Linear Equations; Chapter An expanded list of computer codes in an appendix and more computer-solvable exercises in the text reflect Strang? Many exercises appear in the sections and in the chapter reviews. Exercises are simple but instructive.

3: Linear Algebra and Its Applications, 4th Edition by Gilbert Strang ()

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The current 4th edition of Linear Algebra and its Applications has been updated relative to the 3rd edition (). I learned the material from the 3rd edition and I actually feel, on the whole, the 3rd edition was the optimal edition.

5: Introduction to Linear Algebra () :: Homework Help and Answers :: Slader

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8: Introduction to Linear Algebra, 5th Edition

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9: Linear Algebra and Its Applications by Gilbert Strang

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Behavioral research in accounting Learning parts-based representations of data 2. THE COLONY: an overview of the initial settlement of the colony of Associate Professor of University of Illinois Pork Industry Conference Device design and process window analysis of a deep submicron CMOS VLSI technology Spices and herbs health benefits Sermons and discourses, 1723-1729 Overcoming disfigurement Summer on a mountain of spices ALLAs Immigration Litigation Toolbox; Essential Materials for Administrative and Federal Court Practice Controlling the greenhouse environment Adobe merge Metaphysics and aesthetics in the works of Eduardo Barrios Songs of Milarepa Dalleszona and the seventh treasure Living with Killer Bees Asset classes and financial instruments chapter 2 Russell on truth, falsity, and unity (III : 1918 Dickens dramatized The refraction of the eye Standard rug sizes The potato cookbook John (Koinonia House Commentaries (Software)) Prima Donnas Album The Essays of Ralph Waldo Emerson (Collected Works of Ralph Waldo Emerson) High-frequency and microwave circuit design V.6. Gordon to Hurstpierpoint. Life of Ben Franklin Close up and macro photography art and techniques The white and black dynasties Theophile Gautier The food and cooking of Vietnam and Cambodia Korea and the United States Jasper Co TX Marriages 1849-1861 Time and Persistence Moscow at a glance George the Fourth The Good Bird Guide Through the Golden Doors Lean six sigma projects