

BEST LINEAR ALGEBRA TEXTBOOK REDDIT

BEST LINEAR ALGEBRA TEXTBOOK REDDIT HAS BEEN A TOPIC OF CONSIDERABLE DISCUSSION AMONG STUDENTS, EDUCATORS, AND MATH ENTHUSIASTS ALIKE. WITH THE INCREASING IMPORTANCE OF LINEAR ALGEBRA IN VARIOUS FIELDS SUCH AS COMPUTER SCIENCE, ENGINEERING, AND DATA SCIENCE, FINDING THE RIGHT TEXTBOOK IS CRUCIAL FOR MASTERING THE SUBJECT. THIS ARTICLE AIMS TO EXPLORE THE BEST LINEAR ALGEBRA TEXTBOOKS RECOMMENDED BY THE REDDIT COMMUNITY, HIGHLIGHTING THEIR STRENGTHS, WEAKNESSES, AND UNIQUE FEATURES. WE WILL ALSO DISCUSS HOW TO CHOOSE THE RIGHT TEXTBOOK BASED ON YOUR LEARNING STYLE AND ACADEMIC NEEDS, ENSURING THAT YOU FIND THE PERFECT FIT FOR YOUR STUDIES.

IN THE FOLLOWING SECTIONS, WE WILL COVER THE TOP RECOMMENDED TEXTBOOKS, ADDITIONAL RESOURCES, AND TIPS FOR STUDYING LINEAR ALGEBRA EFFECTIVELY. BY THE END OF THIS ARTICLE, YOU WILL HAVE A COMPREHENSIVE UNDERSTANDING OF WHICH TEXTBOOKS ALIGN BEST WITH YOUR EDUCATIONAL GOALS.

- INTRODUCTION
- TOP RECOMMENDED LINEAR ALGEBRA TEXTBOOKS
- CHOOSING THE RIGHT LINEAR ALGEBRA TEXTBOOK
- ADDITIONAL RESOURCES FOR LEARNING LINEAR ALGEBRA
- TIPS FOR EFFECTIVE STUDY OF LINEAR ALGEBRA

TOP RECOMMENDED LINEAR ALGEBRA TEXTBOOKS

WHEN IT COMES TO THE BEST LINEAR ALGEBRA TEXTBOOKS, REDDIT USERS OFTEN HIGHLIGHT SEVERAL KEY TITLES THAT HAVE STOOD THE TEST OF TIME. EACH OF THESE BOOKS HAS ITS OWN APPROACH TO TEACHING THE SUBJECT, CATERING TO DIFFERENT LEARNING STYLES. BELOW ARE SOME OF THE MOST FREQUENTLY RECOMMENDED LINEAR ALGEBRA TEXTBOOKS ON REDDIT.

1. LINEAR ALGEBRA DONE RIGHT BY SHELDON AXLER

SHELDON AXLER'S "LINEAR ALGEBRA DONE RIGHT" IS A HIGHLY REGARDED TEXTBOOK THAT EMPHASIZES THE CONCEPTUAL UNDERSTANDING OF LINEAR ALGEBRA OVER COMPUTATIONAL TECHNIQUES. THIS BOOK IS ESPECIALLY POPULAR AMONG MATHEMATICS MAJORS AND THOSE LOOKING FOR A DEEP THEORETICAL UNDERSTANDING OF THE SUBJECT.

KEY FEATURES OF "LINEAR ALGEBRA DONE RIGHT" INCLUDE:

- FOCUS ON VECTOR SPACES AND LINEAR TRANSFORMATIONS
- MINIMAL RELIANCE ON DETERMINANTS
- CLEAR EXPLANATIONS AND WELL-STRUCTURED CONTENT

2. INTRODUCTION TO LINEAR ALGEBRA BY GILBERT STRANG

GILBERT STRANG'S "INTRODUCTION TO LINEAR ALGEBRA" IS ANOTHER FAVORITE AMONG REDDIT USERS. THIS TEXTBOOK IS KNOWN FOR ITS PRACTICAL APPLICATIONS AND IS WIDELY USED IN ENGINEERING AND APPLIED MATHEMATICS COURSES. STRANG'S ENGAGING WRITING STYLE MAKES COMPLEX TOPICS ACCESSIBLE TO A BROAD AUDIENCE.

HIGHLIGHTS OF THIS TEXTBOOK INCLUDE:

- APPLICATIONS IN ENGINEERING AND COMPUTER SCIENCE
- NUMEROUS EXAMPLES AND EXERCISES
- COMPANION VIDEO LECTURES AVAILABLE ONLINE

3. LINEAR ALGEBRA AND ITS APPLICATIONS BY DAVID C. LAY

DAVID C. LAY'S "LINEAR ALGEBRA AND ITS APPLICATIONS" IS A COMPREHENSIVE TEXTBOOK THAT BALANCES THEORY AND APPLICATION. IT IS PARTICULARLY WELL-SUITED FOR STUDENTS WHO APPRECIATE A STRUCTURED APPROACH TO LEARNING LINEAR ALGEBRA CONCEPTS.

NOTABLE ASPECTS OF LAY'S TEXTBOOK INCLUDE:

- STEP-BY-STEP PROBLEM-SOLVING TECHNIQUES
- REAL-WORLD APPLICATIONS AND EXAMPLES
- RICH SET OF EXERCISES FOR PRACTICE

CHOOSING THE RIGHT LINEAR ALGEBRA TEXTBOOK

WITH NUMEROUS TEXTBOOKS AVAILABLE, SELECTING THE RIGHT ONE CAN BE CHALLENGING. HERE ARE SOME FACTORS TO CONSIDER WHEN MAKING YOUR CHOICE:

1. LEARNING STYLE

YOUR LEARNING STYLE PLAYS A SIGNIFICANT ROLE IN DETERMINING WHICH TEXTBOOK WILL WORK BEST FOR YOU. IF YOU PREFER A THEORETICAL APPROACH, "LINEAR ALGEBRA DONE RIGHT" MAY BE IDEAL. ON THE OTHER HAND, IF YOU ARE LOOKING FOR PRACTICAL APPLICATIONS, "INTRODUCTION TO LINEAR ALGEBRA" BY GILBERT STRANG IS A BETTER FIT.

2. COURSE REQUIREMENTS

ALWAYS CONSIDER THE REQUIREMENTS OF YOUR COURSE OR PROGRAM. SOME PROFESSORS MAY HAVE A PREFERRED TEXTBOOK, WHICH CAN BE HELPFUL IN GUIDING YOUR CHOICE. ADDITIONALLY, CERTAIN TEXTBOOKS MAY ALIGN BETTER WITH SPECIFIC COURSE CONTENT.

3. SUPPLEMENTARY MATERIALS

LOOK FOR TEXTBOOKS THAT OFFER SUPPLEMENTARY MATERIALS SUCH AS ONLINE RESOURCES, VIDEO LECTURES, AND SOLUTION MANUALS. THESE CAN ENHANCE YOUR LEARNING EXPERIENCE AND PROVIDE ADDITIONAL SUPPORT AS YOU STUDY LINEAR ALGEBRA.

ADDITIONAL RESOURCES FOR LEARNING LINEAR ALGEBRA

BEYOND TEXTBOOKS, THERE ARE MANY RESOURCES AVAILABLE TO AID YOUR UNDERSTANDING OF LINEAR ALGEBRA. HERE ARE SOME RECOMMENDED RESOURCES:

1. ONLINE COURSES

PLATFORMS LIKE COURSERA, EDX, AND KHAN ACADEMY OFFER ONLINE COURSES IN LINEAR ALGEBRA, OFTEN TAUGHT BY RENOWNED PROFESSORS. THESE COURSES CAN PROVIDE INTERACTIVE LEARNING EXPERIENCES AND A DIFFERENT PERSPECTIVE ON THE SUBJECT.

2. VIDEO LECTURES

MANY EDUCATORS, INCLUDING GILBERT STRANG, HAVE MADE THEIR LECTURES AVAILABLE ON PLATFORMS LIKE YOUTUBE. THESE VIDEO LECTURES CAN BE AN EXCELLENT SUPPLEMENT TO YOUR TEXTBOOK, HELPING TO CLARIFY DIFFICULT CONCEPTS.

3. STUDY GROUPS AND FORUMS

PARTICIPATING IN STUDY GROUPS OR ONLINE FORUMS CAN GREATLY ENHANCE YOUR LEARNING. ENGAGING WITH PEERS ALLOWS FOR COLLABORATIVE PROBLEM-SOLVING AND THE EXCHANGE OF IDEAS, WHICH CAN DEEPEN YOUR UNDERSTANDING OF LINEAR ALGEBRA CONCEPTS.

TIPS FOR EFFECTIVE STUDY OF LINEAR ALGEBRA

STUDYING LINEAR ALGEBRA CAN BE CHALLENGING, BUT WITH THE RIGHT STRATEGIES, YOU CAN IMPROVE YOUR UNDERSTANDING AND RETENTION OF THE MATERIAL. HERE ARE SOME EFFECTIVE STUDY TIPS:

1. PRACTICE REGULARLY

REGULAR PRACTICE IS ESSENTIAL FOR MASTERING LINEAR ALGEBRA CONCEPTS. WORK THROUGH EXERCISES IN YOUR TEXTBOOK AND SEEK ADDITIONAL PROBLEMS ONLINE TO REINFORCE YOUR UNDERSTANDING.

2. Focus on Understanding Concepts

Instead of rote memorization, aim to understand the underlying concepts of linear algebra. This will help you apply knowledge to different problems and scenarios effectively.

3. Utilize Visual Aids

Visualizing concepts through graphs, diagrams, and matrices can significantly enhance comprehension. Use software tools or graphing calculators to experiment with linear transformations and vector spaces.

Conclusion

In summary, the best linear algebra textbook Reddit discussions have highlighted several outstanding options for students and learners at all levels. Textbooks such as "Linear Algebra Done Right," "Introduction to Linear Algebra," and "Linear Algebra and Its Applications" each offer unique strengths that cater to different learning preferences. By considering your learning style, course requirements, and available resources, you can select the textbook that best meets your needs. Additionally, utilizing supplementary materials and employing effective study strategies will further enhance your mastery of linear algebra, paving the way for success in your academic pursuits.

Q: What is the best linear algebra textbook for beginners?

A: For beginners, "Introduction to Linear Algebra" by Gilbert Strang is highly recommended due to its clear explanations and practical applications.

Q: Are there any free online resources for learning linear algebra?

A: Yes, platforms like Khan Academy and MIT OpenCourseWare offer free online courses and materials on linear algebra.

Q: How important is it to have supplementary materials with a linear algebra textbook?

A: Supplementary materials, such as solution manuals and video lectures, can greatly enhance your understanding and provide additional support in learning complex concepts.

Q: Is "Linear Algebra Done Right" suitable for self-study?

A: Yes, "Linear Algebra Done Right" is suitable for self-study, especially for those who have a strong interest in theoretical aspects of linear algebra.

Q: What is the primary focus of "Linear Algebra and Its Applications" by David Lay?

A: The primary focus of Lay's textbook is to balance theoretical concepts with practical applications, making it ideal for applied mathematics students.

Q: CAN I USE MULTIPLE TEXTBOOKS FOR STUDYING LINEAR ALGEBRA?

A: ABSOLUTELY. USING MULTIPLE TEXTBOOKS CAN PROVIDE DIFFERENT PERSPECTIVES AND EXPLANATIONS, WHICH CAN ENHANCE YOUR OVERALL UNDERSTANDING OF LINEAR ALGEBRA.

Q: HOW CAN I EFFECTIVELY PRACTICE LINEAR ALGEBRA PROBLEMS?

A: REGULARLY WORK THROUGH EXERCISES IN YOUR TEXTBOOKS, SEEK ADDITIONAL PROBLEMS ONLINE, AND CONSIDER JOINING STUDY GROUPS TO DISCUSS AND SOLVE PROBLEMS COLLABORATIVELY.

Q: WHAT TOPICS ARE TYPICALLY COVERED IN A LINEAR ALGEBRA COURSE?

A: COMMON TOPICS INCLUDE VECTOR SPACES, LINEAR TRANSFORMATIONS, DETERMINANTS, EIGENVALUES, EIGENVECTORS, AND MATRIX OPERATIONS.

Q: IS LINEAR ALGEBRA ESSENTIAL FOR DATA SCIENCE?

A: YES, LINEAR ALGEBRA IS FOUNDATIONAL FOR DATA SCIENCE, PARTICULARLY IN AREAS SUCH AS MACHINE LEARNING, COMPUTER GRAPHICS, AND STATISTICAL ANALYSIS.

Q: HOW DO I DETERMINE IF A TEXTBOOK IS RIGHT FOR ME?

A: CONSIDER YOUR LEARNING STYLE, THE DEPTH OF CONTENT YOU NEED, AND WHETHER THE TEXTBOOK ALIGNS WITH YOUR COURSE REQUIREMENTS. READING REVIEWS AND EXAMINING THE BOOK'S STRUCTURE CAN ALSO HELP IN YOUR DECISION.

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Richard C. Penney, 2005-09-30 A student-oriented approach to linear algebra, now in its Second Edition This introductory-level linear algebra text is for students who require a clear understanding of key algebraic concepts and their applications in such fields as science, engineering, and computer science. The text utilizes a parallel structure that introduces abstract concepts such as linear transformations, eigenvalues, vector spaces, and orthogonality in tandem with computational skills, thereby demonstrating clear and immediate relations between theory and application. Important features of the Second Edition include: Gradual development of vector spaces Highly readable proofs Conceptual exercises Applications sections for self-study Early orthogonality option Numerous computer projects using MATLAB and Maple

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Gilbert Strang, 2006 Renowned professor and author Gilbert Strang demonstrates that linear algebra is a fascinating subject by showing both its beauty and value. While the mathematics is there, the effort is not all concentrated on proofs. Strang's emphasis is on understanding. 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.

best linear algebra textbook reddit: *Elementary Linear Algebra* Howard Anton, 2000-01-06 A first course in linear algebra for mathematics, engineering and computer science students. Praised over many editions for its expository style and clarity of presentation, the revision of this best-selling text combines linear algebra theory with applications, and addresses a new generation of students' changing needs. . This text can be used in a first or second year 1- or 2- semester course. Calculus is not a prerequisite, but there are exercises, examples, and applications for students with calculus backgrounds; they are clearly marked and can be omitted with no loss of continuity.

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best linear algebra textbook reddit: *The Linear Algebra a Beginning Graduate Student Ought to Know* Jonathan S. Golan, 2012-04-23 Linear algebra is a living, active branch of mathematics which is central to almost all other areas of mathematics, both pure and applied, as well as to computer science, to the physical, biological, and social sciences, and to engineering. It encompasses an extensive corpus of theoretical results as well as a large and rapidly-growing body of computational techniques. Unfortunately, in the past decade, the content of linear algebra courses required to complete an undergraduate degree in mathematics has been depleted to the extent that they fail to provide a sufficient theoretical or computational background. Students are not only less able to formulate or even follow mathematical proofs, they are also less able to understand the mathematics of the numerical algorithms they need for applications. Certainly, the material presented in the average undergraduate course is insufficient for graduate study. This book is intended to fill the gap which has developed by providing enough theoretical and computational material to allow the advanced undergraduate or beginning graduate student to overcome this deficiency and be able to work independently or in advanced courses. The book is intended to be used either as a self-study guide, a textbook for a course in advanced linear algebra, or as a reference book. It is also designed to prepare a student for the linear algebra portion of prelim exams or PhD qualifying exams. The volume is self-contained to the extent that it does not assume any previous formal knowledge of linear algebra, though the reader is assumed to have been exposed, at least informally, to some of the basic ideas and techniques, such as manipulation of small matrices and the solution of small systems of linear equations over the real numbers. More importantly, it assumes a seriousness of purpose, considerable motivation, and a modicum of mathematical sophistication on the part of the reader. In the latest edition, new major theorems have been added, as well as many new examples. There are over 130 additional exercises and many of the previous exercises have been revised or rewritten. In addition, a large number of additional biographical notes and thumbnail portraits of mathematicians have been included.

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best linear algebra textbook reddit: *A Concise Introduction to Linear Algebra* Géza Schay, 2012-03-30 Building on the author's previous edition on the subject (*Introduction to Linear Algebra*, Jones & Bartlett, 1996), this book offers a refreshingly concise text suitable for a standard course in linear algebra, presenting a carefully selected array of essential topics that can be thoroughly covered in a single semester. Although the exposition generally falls in line with the material recommended by the Linear Algebra Curriculum Study Group, it notably deviates in providing an early emphasis on the geometric foundations of linear algebra. This gives students a more intuitive understanding of the subject and enables an easier grasp of more abstract concepts covered later in the course. The focus throughout is rooted in the mathematical fundamentals, but the text also investigates a number of interesting applications, including a section on computer graphics, a chapter on numerical methods, and many exercises and examples using MATLAB. Meanwhile, many visuals and problems (a complete solutions manual is available to instructors) are included to enhance and reinforce understanding throughout the book. Brief yet precise and rigorous, this work is an ideal choice for a one-semester course in linear algebra targeted primarily at math or physics majors. It is a valuable tool for any professor who teaches the subject.

best linear algebra textbook reddit: *Applied Linear Algebra* Peter J. Olver, Chehrzad Shakiban, 2018-05-30 This textbook develops the essential tools of linear algebra, with the goal of imparting technique alongside contextual understanding. Applications go hand-in-hand with theory, each reinforcing and explaining the other. This approach encourages students to develop not only the technical proficiency needed to go on to further study, but an appreciation for when, why, and how the tools of linear algebra can be used across modern applied mathematics. Providing an extensive treatment of essential topics such as Gaussian elimination, inner products and norms, and eigenvalues and singular values, this text can be used for an in-depth first course, or an application-driven second course in linear algebra. In this second edition, applications have been updated and expanded to include numerical methods, dynamical systems, data analysis, and signal processing, while the pedagogical flow of the core material has been improved. Throughout, the text emphasizes the conceptual connections between each application and the underlying linear algebraic techniques, thereby enabling students not only to learn how to apply the mathematical tools in routine contexts, but also to understand what is required to adapt to unusual or emerging problems. No previous knowledge of linear algebra is needed to approach this text, with single-variable calculus as the only formal prerequisite. However, the reader will need to draw upon some mathematical maturity to engage in the increasing abstraction inherent to the subject. Once

equipped with the main tools and concepts from this book, students will be prepared for further study in differential equations, numerical analysis, data science and statistics, and a broad range of applications. The first author's text, Introduction to Partial Differential Equations, is an ideal companion volume, forming a natural extension of the linear mathematical methods developed here.

best linear algebra textbook reddit: Linear Algebra for All Undergraduates D. Murdoch, 2018-05-05 Blue Collar Scholar makes yet another wonderful out of print textbook available to everyone at a price everyone can afford with this outstanding linear algebra text. Murdoch's book was one of the first linear algebra textbooks that tried to give a broad presentation for well-prepared sophomores or juniors of average ability which was both mathematically careful and rich in applications. It's beautifully written, thorough and very well organized. This book emphasizes the relationship between linear algebra and the Euclidean and analytic geometry of the plane (and via isomorphism, the complex plane $\mathbb{C}$) and three dimensional space. Murdoch completely avoids abstract vector spaces in the main text by limiting the scalar fields to $\mathbb{R}$ and $\mathbb{C}$. It allows a careful presentation of the subject without recourse to abstract algebra concepts in a familiar context most students at this level should have at least a passing acquaintance with. Chapter 1 begins with vector spaces and their elementary properties, all strictly over the fields $\mathbb{R}$ and $\mathbb{C}$. No essential structure is lost in this manner that cannot be omitted in an introduction and the generalization to abstract fields is presented briefly in an appendix. Although the book's overall emphasis is on linear transformations, Chapters 2 and 3 give a virtually complete presentation of the theory and application of linear systems of n variables, $n \times n$ matrices and determinants. In a concrete presentation, this is the natural way to go because most applications and calculations in linear algebra are done via operations on matrices i.e. linear transformations with a choice of basis. However, this actual relationship between linear transformations and matrices is not explored explicitly until later, after a great deal of experience is obtained manipulating matrices. This furnishes a great many specific examples and provides experience with calculations. Chapters 4 and 5 develop classical geometry, inner products and orthogonality, relations (complements and projections) in real spaces. Chapter 6 finally defines and develops abstract linear transformations in low dimensions and the relationship to matrices under a change of basis. The critical theory of spectral analysis-i.e. the characteristic equation of a linear system and its solution producing eigenvalues as its roots and the resulting eigenvectors-is developed at length in chapter 7. It gives a detailed and very clear explication of the deduction of the Jordan form of a matrix-a critical topic many authors struggle to give an understandable but elementary discussion of. Chapter 8 gives applications of linear algebra to the analysis of quadratic forms, an old topic that usually isn't discussed much in basic courses anymore, but is quite important in both algebra and physics. The last chapter extends the previous results to complex vector spaces, where adjoints and Hermitian matrices come into play. In addition, Blue Collar Scholar founder and editor has added his usual personal 2018 edition preface, giving the historical background of this early textbook and the gradual emergence and evolution of the linear algebra course in American undergraduate mathematics programs. He has also added a substantial new Recommended Reading section, suggesting further reading in linear algebra for both teachers and students of this incredibly important subject. This careful, rich and inexpensive text is a fantastic choice for either a standard linear algebra text or self-study by undergraduates or graduate students in the physical or social sciences who need to learn linear algebra for either applications or the theory. The prerequisites are only high school algebra and geometry. A prior course in calculus, while helpful, is not really necessary. It should become a classic in rapid course and a popular selection for anyone and everyone interested in teaching or learning this beautiful and basic subject.

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best linear algebra textbook reddit: Introduction Of Linear Algebra With Applications Jim DeFranza, Daniel Gagliardi, 2015-01-27

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best linear algebra textbook reddit: Linear Algebra for Everyone Lorenzo Robbiano, 2010-12-15 This book provides students with the rudiments of Linear Algebra, a fundamental subject for students in all areas of science and technology. The book would also be good for statistics students studying linear algebra. It is the translation of a successful textbook currently being used in Italy. The author is a mathematician sensitive to the needs of a general audience. In addition to introducing fundamental ideas in Linear Algebra through a wide variety of interesting examples, the book also discusses topics not usually covered in an elementary text (e.g. the cost of operations, generalized inverses, approximate solutions). The challenge is to show why the everyone in the title can find Linear Algebra useful and easy to learn. The translation has been prepared by a native English speaking mathematician, Professor Anthony V. Geramita.

best linear algebra textbook reddit: **Linear algebra with applications** Otto Bretscher, 2008-05-10 Offering the most geometric presentation available, Linear Algebra with Applications, Fourth Edition emphasizes linear transformations as a unifying theme. This elegant textbook combines a user-friendly presentation with straightforward, lucid language to clarify and organize the many techniques and applications of linear algebra. Exercises and examples make up the heart of the text, with abstract exposition kept to a minimum. Extensive problem sets keep students involved in the material, while genuine applications for a broad range of sciences prepares them for the methods and models of contemporary scientists. In addition, the wealth and variety of exercise sets enable instructors to design a course to best suit the goals and needs of their students. This revision reflects careful review and appropriate changes to the wording of each idea, while preserving the content structure of the previous edition.

best linear algebra textbook reddit: **Linear Algebra Apps 5e** Strang, 2012-04-01

best linear algebra textbook reddit: **Linear Algebra** M. Thamban Nair, Arindama Singh, 2018 This book introduces the fundamental concepts, techniques and results of linear algebra that form the basis of analysis, applied mathematics and algebra. Intended as a text for undergraduate students of mathematics, science and engineering with a knowledge of set theory, it discusses the concepts that are constantly used by scientists and engineers. It also lays the foundation for the language and framework for modern analysis and its applications. Divided into seven chapters, it discusses vector spaces, linear transformations, best approximation in inner product spaces, eigenvalues and eigenvectors, block diagonalisation, triangularisation, Jordan form, singular value decomposition, polar decomposition, and many more topics that are relevant to applications. The topics chosen have become well-established over the years and are still very much in use. The approach is both geometric and algebraic. It avoids distraction from the main theme by deferring the exercises to the end of each section. These exercises aim at reinforcing the learned concepts rather than as exposing readers to the tricks involved in the computation. Problems included at the end of each chapter are relatively advanced and require a deep understanding and assimilation of the topics.--

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articles - "it is best" vs. "it is the best" - English Language The word "best" is an adjective, and adjectives do not take articles by themselves. Because the noun car is modified by the superlative adjective best, and because this makes

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