

# Anton Rorres Elementary Linear Algebra 8th Edition

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*Contemporary Linear Algebra* - Howard Anton 2002-09-02

From one of the premier authors in higher education comes a new linear algebra textbook that fosters mathematical thinking, problem-solving abilities, and exposure to real-world applications. Without sacrificing mathematical precision, Anton and Busby focus on the aspects of linear algebra that are most likely to have practical value to the student while not compromising the intrinsic mathematical form of the subject.

Throughout *Contemporary Linear Algebra*, students are encouraged to look at ideas and problems from multiple points of view.

**Disquisitiones Arithmeticae** - Carl Friedrich Gauss 2018-02-07

Carl Friedrich Gauss's textbook, *Disquisitiones arithmeticae*, published in 1801 (Latin), remains to this day a true masterpiece of mathematical examination. .

*Practical Linear Algebra* - Gerald Farin 2021-10-13

Linear algebra is growing in importance. 3D entertainment, animations in movies and video games are developed using linear algebra. Animated characters are generated using equations straight out of this book.

Linear algebra is used to extract knowledge from the massive amounts of data generated from modern technology. The Fourth Edition of this popular text introduces linear algebra in a comprehensive, geometric, and algorithmic way. The authors start with the fundamentals in 2D and

3D, then move on to higher dimensions, expanding on the fundamentals and introducing new topics, which are necessary for many real-life applications and the development of abstract thought. Applications are introduced to motivate topics. The subtitle, *A Geometry Toolbox*, hints at the book's geometric approach, which is supported by many sketches and figures. Furthermore, the book covers applications of triangles, polygons, conics, and curves. Examples demonstrate each topic in action. This practical approach to a linear algebra course, whether through classroom instruction or self-study, is unique to this book. New to the Fourth Edition: Ten new application sections. A new section on change of basis. This concept now appears in several places. Chapters 14-16 on higher dimensions are notably revised. A deeper look at polynomials in the gallery of spaces. Introduces the QR decomposition and its relevance to least squares. Similarity and diagonalization are given more attention, as are eigenfunctions. A longer thread on least squares, running from orthogonal projections to a solution via SVD and the pseudoinverse. More applications for PCA have been added. More examples, exercises, and more on the kernel and general linear spaces. A list of applications has been added in Appendix A. The book gives instructors the option of tailoring the course for the primary interests of their students: mathematics, engineering, science, computer graphics, and geometric

modeling.

Modeling and Analysis of Dynamic Systems - Charles M. Close  
2001-08-20

The book presents the methodology applicable to the modeling and analysis of a variety of dynamic systems, regardless of their physical origin. It includes detailed modeling of mechanical, electrical, electro-mechanical, thermal, and fluid systems. Models are developed in the form of state-variable equations, input-output differential equations, transfer functions, and block diagrams. The Laplace-transform is used for analytical solutions. Computer solutions are based on MATLAB and Simulink.

Differential Equations with Boundary-value Problems - Dennis G. Zill  
2005

Now enhanced with the innovative DE Tools CD-ROM and the iLrn teaching and learning system, this proven text explains the "how" behind the material and strikes a balance between the analytical, qualitative, and quantitative approaches to the study of differential equations. This accessible text speaks to students through a wealth of pedagogical aids, including an abundance of examples, explanations, "Remarks" boxes, definitions, and group projects. This book was written with the student's understanding firmly in mind. Using a straightforward, readable, and helpful style, this book provides a thorough treatment of boundary-value problems and partial differential equations.

Explorations of Mathematical Models in Biology with Maple - Mazen Shahin  
2014-10-07

Explore and analyze the solutions of mathematical models from diverse disciplines As biology increasingly depends on data, algorithms, and models, it has become necessary to use a computing language, such as the user-friendly Maple™, to focus more on building and analyzing models as opposed to configuring tedious calculations. Explorations of Mathematical Models in Biology with Maple provides an introduction to model creation using Maple, followed by the translation, analysis, interpretation, and observation of the models. With an integrated and interdisciplinary approach that embeds mathematical modeling into

biological applications, the book illustrates numerous applications of mathematical techniques within biology, ecology, and environmental sciences. Featuring a quantitative, computational, and mathematical approach, the book includes: Examples of real-world applications, such as population dynamics, genetics, drug administration, interacting species, and the spread of contagious diseases, to showcase the relevancy and wide applicability of abstract mathematical techniques Discussion of various mathematical concepts, such as Markov chains, matrix algebra, eigenvalues, eigenvectors, first-order linear difference equations, and nonlinear first-order difference equations Coverage of difference equations to model a wide range of real-life discrete time situations in diverse areas as well as discussions on matrices to model linear problems Solutions to selected exercises and additional Maple codes Explorations of Mathematical Models in Biology with Maple is an ideal textbook for undergraduate courses in mathematical models in biology, theoretical ecology, bioeconomics, forensic science, applied mathematics, and environmental science. The book is also an excellent reference for biologists, ecologists, mathematicians, biomathematicians, and environmental and resource economists.

*Political Research* - Sandra Halperin  
2020-04

Political Research: Methods and Practical Skills, the market leading textbook in political research methods, is essential reading for students taking a module in research methods as part of a politics or international relations degree. Its accessible, step-by-step approach covers the entire research methods process, equipping students with the necessary skills to successfully conduct their own independent study and research. With coverage of both quantitative and qualitative methods, the book begins by guiding readers on how to come up with a research question, and leads the reader right through to writing up a final report. The book also includes chapters on theory, methodology, and the philosophy of social science, which are fully revised for the third edition to include up-to-date 'real world' examples, such as Gerber and Green's survey on political attitudes or Wantchekon's study on clientelism in Benin. These sections help students to understand essential debates around research methods,

as well as sharing practical guidance. The easy to understand language and straightforward approach of *Political Research: Methods and Practical Skills* help students get to grips with particularly complex topics relating to epistemological, ontological and mythological research, and quantitative questions such as 'what is data?'. The third edition reflects key areas of development in the field, such as the increased importance of ethics, and changes in digital research. The book is also enhanced with a range of engaging learning features including chapter summaries, end-of-chapter conclusions and questions, and a guide to further reading, created to reinforce students' understanding of research methods and further explore specific approaches to research.

**Essential Mathematics for Games and Interactive Applications** - James M. Van Verth 2008-05-19

*Essential Mathematics for Games and Interactive Applications*, 2nd edition presents the core mathematics necessary for sophisticated 3D graphics and interactive physical simulations. The book begins with linear algebra and matrix multiplication and expands on this foundation to cover such topics as color and lighting, interpolation, animation and basic game physics. *Essential Mathematics* focuses on the issues of 3D game development important to programmers and includes optimization guidance throughout. The new edition Windows code will now use Visual Studio.NET. There will also be DirectX support provided, along with OpenGL - due to its cross-platform nature. Programmers will find more concrete examples included in this edition, as well as additional information on tuning, optimization and robustness. The book has a companion CD-ROM with exercises and a test bank for the academic secondary market, and for main market: code examples built around a shared code base, including a math library covering all the topics presented in the book, a core vector/matrix math engine, and libraries to support basic 3D rendering and interaction.

**Elementary Linear Algebra** - Howard Anton 2015

Set - Anton 2014-06-17

Elementary Differential Equations - William E. Boyce 2017-08-14  
With Wiley's Enhanced E-Text, you get all the benefits of a downloadable, reflowable eBook with added resources to make your study time more effective, including: • Embedded & searchable equations, figures & tables • Math XML • Index with linked page numbers for easy reference • Redrawn full color figures to allow for easier identification  
*Elementary Differential Equations*, 11th Edition is written from the viewpoint of the applied mathematician, whose interest in differential equations may sometimes be quite theoretical, sometimes intensely practical, and often somewhere in between. The authors have sought to combine a sound and accurate (but not abstract) exposition of the elementary theory of differential equations with considerable material on methods of solution, analysis, and approximation that have proved useful in a wide variety of applications. While the general structure of the book remains unchanged, some notable changes have been made to improve the clarity and readability of basic material about differential equations and their applications. In addition to expanded explanations, the 11th edition includes new problems, updated figures and examples to help motivate students. The program is primarily intended for undergraduate students of mathematics, science, or engineering, who typically take a course on differential equations during their first or second year of study. The main prerequisite for engaging with the program is a working knowledge of calculus, gained from a normal two ] or three ] semester course sequence or its equivalent. Some familiarity with matrices will also be helpful in the chapters on systems of differential equations.

*Challenges and Strategies in Teaching Linear Algebra* - Sepideh Stewart 2018-02-01

This book originated from a Discussion Group (Teaching Linear Algebra) that was held at the 13th International Conference on Mathematics Education (ICME-13). The aim was to consider and highlight current efforts regarding research and instruction on teaching and learning linear algebra from around the world, and to spark new collaborations. As the outcome of the two-day discussion at ICME-13, this book focuses

on the pedagogy of linear algebra with a particular emphasis on tasks that are productive for learning. The main themes addressed include: theoretical perspectives on the teaching and learning of linear algebra; empirical analyses related to learning particular content in linear algebra; the use of technology and dynamic geometry software; and pedagogical discussions of challenging linear algebra tasks. Drawing on the expertise of mathematics education researchers and research mathematicians with experience in teaching linear algebra, this book gathers work from nine countries: Austria, Germany, Israel, Ireland, Mexico, Slovenia, Turkey, the USA and Zimbabwe.

**Elementary Differential Equations and Boundary Value Problems** - William E. Boyce 2017-08-21

Elementary Differential Equations and Boundary Value Problems 11e, like its predecessors, is written from the viewpoint of the applied mathematician, whose interest in differential equations may sometimes be quite theoretical, sometimes intensely practical, and often somewhere in between. The authors have sought to combine a sound and accurate (but not abstract) exposition of the elementary theory of differential equations with considerable material on methods of solution, analysis, and approximation that have proved useful in a wide variety of applications. While the general structure of the book remains unchanged, some notable changes have been made to improve the clarity and readability of basic material about differential equations and their applications. In addition to expanded explanations, the 11th edition includes new problems, updated figures and examples to help motivate students. The program is primarily intended for undergraduate students of mathematics, science, or engineering, who typically take a course on differential equations during their first or second year of study. The main prerequisite for engaging with the program is a working knowledge of calculus, gained from a normal two or three semester course sequence or its equivalent. Some familiarity with matrices will also be helpful in the chapters on systems of differential equations.

**Advances in Image and Video Technology** - Long-Wen Chang  
2006-12-09

This book constitutes the refereed proceedings of the First Pacific Rim Symposium on Image and Video Technology, PSIVT 2006, held in Hsinchu, Taiwan in December 2006. The 76 revised full papers and 58 revised poster papers cover a wide range of topics, including all aspects of video and multimedia, both technical and artistic perspectives and both theoretical and practical issues.

**Introducing Religion** - Daniel L. Pals 2009

What is religion? How is it to be explained? Why do human beings believe in divinities? Why do the beliefs and behaviors we typically describe as religious so deeply affect the human personality and so subtly weave their way through human society? *Introducing Religion: Readings from the Classic Theorists* presents eleven key texts from influential theorists who played a pivotal role in the modern enterprise of explaining the phenomenon of religion. These writings seek to account for the origin, function, and enduring human appeal of religion by drawing on methods of scientific scholarship unconstrained by theological creeds or confessional commitments. An ideal companion to author Daniel L. Pals' textbook, *Eight Theories of Religion*, Second Edition, or other beginning texts, *Introducing Religion* opens with selections from the works of Edward Burnett Tylor and James Frazer--Victorian pioneers in anthropology and the comparative study of religion. It then offers entry into the provocative analyses of Sigmund Freud, Emile Durkheim, and Karl Marx, whose aggressive reductionist approaches framed the explanatory debate for much of the century to follow. Responses to reductionist theories--and new directions in explanation--claim a place in selections from the works of philosopher-psychologist William James, theologian Rudolf Otto, sociologist Max Weber, and comparativist Mircea Eliade. The volume ends with discussions drawn from the celebrated field studies of British anthropologist E. E. Evans-Pritchard and the interpretive anthropology of American theorist Clifford Geertz, whose fieldwork took him to both Asia and the Middle East. Brief career portraits of the theorists at the outset of each chapter give context to the readings, and a general introduction features guiding questions designed to help students assess and compare

the different theories. Offering an illuminating overview of this controversial and engaging subject, *Introducing Religion: Readings from the Classic Theorists* is ideal for introductory courses in religion as well as courses in method and theory of religion, world religions, and sociology, psychology, or anthropology of religion.

[Abstract Algebra with Applications](#) - Audrey Terras 2018-12-20

This text offers a friendly and concise introduction to abstract algebra, emphasizing its uses in the modern world.

**Elementary Linear Algebra** - Lawrence E. Spence 2013-07-29

For a sophomore-level course in Linear Algebra. Based on the recommendations of the Linear Algebra Curriculum Study Group, this introduction to linear algebra offers a matrix-oriented approach with more emphasis on problem solving and applications. Throughout the text, use of technology is encouraged. The focus is on matrix arithmetic, systems of linear equations, properties of Euclidean  $n$ -space, eigenvalues and eigenvectors, and orthogonality. Although matrix-oriented, the text provides a solid coverage of vector spaces.

[Advanced Engineering Analysis](#) - R.V Dukupati 2006-05-09

Discusses in a concise but thorough manner fundamental statement of the theory, principles and methods on vectors and vector spaces, matrix analysis, ordinary and partial differential equations, Fourier analysis and transforms, vector differential calculus, vector integral calculus, frames of reference, variational calculus, canonical transformations, and Hamilton-Jacobi theory.

**Elementary Linear Algebra** - Ron Larson 2016-01-01

ELEMENTARY LINEAR ALGEBRA's clear, careful, and concise presentation of material helps you fully understand how mathematics works. The author balances theory with examples, applications, and geometric intuition for a complete, step-by-step learning system. To engage you in the material, a new design highlights the relevance of the mathematics and makes the book easier to read. Data and applications reflect current statistics and examples, demonstrating the link between theory and practice. The companion website [LarsonLinearAlgebra.com](http://LarsonLinearAlgebra.com) offers free access to multiple study tools and resources. [CalcChat.com](http://CalcChat.com)

offers free step-by-step solutions to the odd-numbered exercises in the text. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

**Elementary Linear Algebra** - Lawrence E. Spence 2013-08-29

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[Applications of Linear Algebra](#) - Chris Rorres 1979

**Mathematical Methods for Scientists and Engineers** - Donald Allan McQuarrie 2003

"Intended for upper-level undergraduate and graduate courses in chemistry, physics, math and engineering, this book will also become a must-have for the personal library of all advanced students in the physical sciences. Comprised of more than 2000 problems and 700 worked examples that detail every single step, this text is exceptionally well adapted for self study as well as for course use."--From publisher description.

**Elementary Linear Algebra** - Howard Anton 2010-04-12

Elementary Linear Algebra 10th edition gives an elementary treatment of linear algebra that is suitable for a first course for undergraduate students. The aim is to present the fundamentals of linear algebra in the clearest possible way; pedagogy is the main consideration. Calculus is not a prerequisite, but there are clearly labeled exercises and examples (which can be omitted without loss of continuity) for students who have studied calculus. Technology also is not required, but for those who would like to use MATLAB, Maple, or Mathematica, or calculators with linear algebra capabilities, exercises are included at the ends of chapters that allow for further exploration using those tools.

*Algebra and Trigonometry* - Nicholas Faulkner 2017-12-15

Readers learn how calculating and manipulating the unknown has been the enterprise of the field of algebra since its earliest inception in Babylon and ancient Egypt. Trigonometry draws on principles presented in algebra and uses angle measurements to elaborate on geometric calculations. Essential to further mathematical and scientific study, both algebra and trigonometry provide crucial tools in managing variables and understanding the relationships between them. This intriguing and enlightening volume chronicles their respective histories while addressing the curriculum requirements of both disciplines.

*New Research on Lasers and Electro-optics* - William T. Arkin 2007

It is expected that ongoing advances in optics will revolutionise the 21st century as they began doing in the last quarter of the 20th. Such fields as communications, materials science, computing and medicine are leaping forward based on developments in optics. This series presents leading edge research on optics and lasers from researchers spanning the globe.

**Field and Wave Electromagnetics** - Cheng 1989-09

Mathematical Biology - Ronald W. Shonkwiler 2009-08-04

This text presents mathematical biology as a field with a unity of its own, rather than only the intrusion of one science into another. The book focuses on problems of contemporary interest, such as cancer, genetics, and the rapidly growing field of genomics.

**Exercises And Problems In Linear Algebra** - John M Erdman  
2020-09-28

This book contains an extensive collection of exercises and problems that address relevant topics in linear algebra. Topics that the author finds missing or inadequately covered in most existing books are also included. The exercises will be both interesting and helpful to an average student. Some are fairly routine calculations, while others require serious thought. The format of the questions makes them suitable for teachers to use in quizzes and assigned homework. Some of the problems may provide excellent topics for presentation and discussions. Furthermore, answers are given for all odd-numbered exercises which will be

extremely useful for self-directed learners. In each chapter, there is a short background section which includes important definitions and statements of theorems to provide context for the following exercises and problems.

Complex Variables and Applications - James Ward Brown 1996

This text is part of the International Series in Pure and Applied Mathematics. It is designed for junior, senior, and first-year graduate students in mathematics and engineering. This edition preserves the basic content and style of earlier editions and includes many new and relevant applications which are introduced early in the text. Topics include complex numbers, analytic functions, elementary functions, and integrals.

Elementary Linear Algebra - Howard Anton 2016

**Explorations of Mathematical Models in Biology with MATLAB** -  
Mazen Shahin 2013-12-24

Explore and analyze the solutions of mathematical models from diverse disciplines. As biology increasingly depends on data, algorithms, and models, it has become necessary to use a computing language, such as the user-friendly MATLAB, to focus more on building and analyzing models as opposed to configuring tedious calculations. Explorations of Mathematical Models in Biology with MATLAB provides an introduction to model creation using MATLAB, followed by the translation, analysis, interpretation, and observation of the models. With an integrated and interdisciplinary approach that embeds mathematical modeling into biological applications, the book illustrates numerous applications of mathematical techniques within biology, ecology, and environmental sciences. Featuring a quantitative, computational, and mathematical approach, the book includes: Examples of real-world applications, such as population dynamics, genetics, drug administration, interacting species, and the spread of contagious diseases, to showcase the relevancy and wide applicability of abstract mathematical techniques. Discussion of various mathematical concepts, such as Markov chains, matrix algebra, eigenvalues, eigenvectors, first-order linear difference

equations, and nonlinear first-order difference equations Coverage of difference equations to model a wide range of real-life discrete time situations in diverse areas as well as discussions on matrices to model linear problems Solutions to selected exercises and additional MATLAB codes Explorations of Mathematical Models in Biology with MATLAB is an ideal textbook for upper-undergraduate courses in mathematical models in biology, theoretical ecology, bioeconomics, forensic science, applied mathematics, and environmental science. The book is also an excellent reference for biologists, ecologists, mathematicians, biomathematicians, and environmental and resource economists.

*Numerical Analysis, 1/e* - Siva Ramakrishna Das

A text book designed exclusively for undergraduate students, Numerical Analysis presents the theoretical and numerical derivations amply supported by rich pedagogy for practice. With exhaustive theory to reinforce practical computations, the book delves into the concepts of errors in numerical computation, algebraic and transcendental equations, solution of linear system of equation, curve fitting, initial-value problem for ordinary differential equations, boundary-value problems of second order partial differential equations and solution of difference equations with constant coefficient.

**Linear Algebra with Applications, Alternate Edition** - Gareth Williams 2011-08-24

Building upon the sequence of topics of the popular 5th Edition, Linear Algebra with Applications, Alternate Seventh Edition provides instructors with an alternative presentation of course material. In this edition earlier chapters cover systems of linear equations, matrices, and determinates. The vector space  $R^n$  is introduced in chapter 4, leading directly into general vector spaces and linear transformations. This order of topics is ideal for those preparing to use linear equations and matrices in their own fields. New exercises and modern, real-world applications allow students to test themselves on relevant key material and a MATLAB manual, included as an appendix, provides 29 sections of computational problems.

**Linear Algebra with Applications** - Jeffrey Holt 2016-12-15

Holt's Linear Algebra with Applications, Second Edition, blends computational and conceptual topics throughout to prepare students for the rigors of conceptual thinking in an abstract setting. The early treatment of conceptual topics in the context of Euclidean space gives students more time, and a familiar setting, in which to absorb them. This organization also makes it possible to treat eigenvalues and eigenvectors earlier than in most texts. Abstract vector spaces are introduced later, once students have developed a solid conceptual foundation. Concepts and topics are frequently accompanied by applications to provide context and motivation. Because many students learn by example, Linear Algebra with Applications provides a large number of representative examples, over and above those used to introduce topics. The text also has over 2500 exercises, covering computational and conceptual topics over a range of difficulty levels.

Elementary Linear Algebra, Student Solutions Manual - Howard Anton 2000-01-28

Noted for its expository style and clarity of presentation, the revision of this best-selling Linear Algebra text combines Linear Algebra theory with applications, and addresses a new generation of students' changing needs.

**Multivariable and Vector Calculus** - David A. Santos 2015-07-30

This book is designed primarily for undergraduates in mathematics, engineering, and the physical sciences. Rather than concentrating on technical skills, it focuses on a deeper understanding of the subject by providing many unusual and challenging examples. The basic topics of vector geometry, differentiation and integration in several variables are explored. It also provides numerous computer illustrations and tutorials using MATLAB® and Maple®, that bridge the gap between analysis and computation. Features:

- Includes numerous computer illustrations and tutorials using MATLAB® and Maple®
- Covers the major topics of vector geometry, differentiation, and integration in several variables
- Instructors' ancillaries available upon adoption

**Elementary Linear Algebra** - Howard Anton 2019-02-20

Elementary Linear Algebra: Applications Version, 12th Edition gives an

elementary treatment of linear algebra that is suitable for a first course for undergraduate students. The aim is to present the fundamentals of linear algebra in the clearest possible way; pedagogy is the main consideration. Calculus is not a prerequisite, but there are clearly labeled exercises and examples (which can be omitted without loss of continuity) for students who have studied calculus.

*Numerical Issues in Statistical Computing for the Social Scientist* - Micah Altman 2004-02-15

At last—a social scientist's guide through the pitfalls of modern statistical computing. Addressing the current deficiency in the literature on statistical methods as they apply to the social and behavioral sciences, *Numerical Issues in Statistical Computing for the Social Scientist* seeks to provide readers with a unique practical guidebook to the numerical methods underlying computerized statistical calculations specific to these fields. The authors demonstrate that knowledge of these numerical methods and how they are used in statistical packages is essential for making accurate inferences. With the aid of key contributors from both the social and behavioral sciences, the authors have assembled a rich set of interrelated chapters designed to guide empirical social scientists through the potential minefield of modern statistical computing. Uniquely accessible and abounding in modern-day tools, tricks, and advice, the text successfully bridges the gap between the current level of social science methodology and the more sophisticated technical coverage usually associated with the statistical field. Highlights include: A focus on problems occurring in maximum likelihood estimation. Integrated examples of statistical computing (using software packages such as the SAS, Gauss, Splus, R, Stata, LIMDEP, SPSS, WinBUGS, and MATLAB®) A guide to choosing accurate statistical packages

Discussions of a multitude of computationally intensive statistical approaches such as ecological inference, Markov chain Monte Carlo, and spatial regression analysis. Emphasis on specific numerical problems, statistical procedures, and their applications in the field. Replications and re-analysis of published social science research, using innovative numerical methods. Key numerical estimation issues along with the means of avoiding common pitfalls. A related Web site includes test data for use in demonstrating numerical problems, code for applying the original methods described in the book, and an online bibliography of Web resources for the statistical computation. Designed as an independent research tool, a professional reference, or a classroom supplement, the book presents a well-thought-out treatment of a complex and multifaceted field.

Digital Design: International Version - John F Wakerly 2010-06-18

With over 30 years of experience in both industrial and university settings, the author covers the most widespread logic design practices while building a solid foundation of theoretical and engineering principles for students to use as they go forward in this fast moving field.

*Elementary Linear Algebra* - Howard Anton 2010-03-15

When it comes to learning linear algebra, engineers trust Anton. The tenth edition presents the key concepts and topics along with engaging and contemporary applications. The chapters have been reorganized to bring up some of the more abstract topics and make the material more accessible. More theoretical exercises at all levels of difficulty are integrated throughout the pages, including true/false questions that address conceptual ideas. New marginal notes provide a fuller explanation when new methods and complex logical steps are included in proofs. Small-scale applications also show how concepts are applied to help engineers develop their mathematical reasoning.