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Gilbert Strang is a  
Professor of Mathematics at  
Massachusetts Institute of

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Technology and an Honorary  
Fellow of Balliol College,  
of the University of Oxford,  
UK. His current research  
interests include linear  
algebra, wavelets and filter  
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I used this book as self study. I was drawn to Gilbert Strang because it seemed to be the gold standard for linear algebra and the popularity is deserved. The one thing I would like to add is the effect of the use of symbolic math software. I used Mathematica but Strang has some code for Matlab in the book.

*Amazon.com: Customer reviews: Introduction to Linear Algebra*

The 18.06 class soon became popular with science and engineering students, at MIT and around the world. Now in

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its fifth edition, Strang's textbook "Introduction to Linear Algebra" has been translated into French, German, Greek, Japanese, and Portuguese. More than 40 years later, about a third of MIT students take this course.

*Gil Strang is still going strong, online and in print*

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Prof. Gilbert Strang's Home  
Page, MIT Math Dept.

Contains recent wavelet and  
applied math papers,  
textbooks, and  
short course information.

These are 121 cupcakes with  
my favorite  $-1, 2, -1$   
matrix. It was the day  
before Thanksgiving and two  
days before my birthday.

*Gilbert Strang's Homepage*  
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*An Interview with Gilbert  
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*MANUAL FOR INSTRUCTORS*

Strang is the MathWorks  
Professor of Mathematics at  
the Massachusetts Institute  
of Technology. He teaches  
Introduction to Linear

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Algebra and Computational  
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his lectures are freely  
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OpenCourseWare.

*Gilbert Strang - Wikipedia*

This course parallels the  
combination of theory and  
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Strang's textbook  
Introduction to Linear  
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out four key applications in  
the book: Graphs and  
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Book Description: 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  $A'$ . 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: differential equations, engineering,



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This leading textbook for first courses in linear algebra comes from the hugely experienced MIT lecturer and author Gilbert Strang. The book's tried and tested approach is direct, offering practical explanations and examples, while showing the beauty and variety of the subject. Unlike most other linear algebra textbooks, the approach is not a repetitive drill. Instead it inspires an understanding of real mathematics. The book moves gradually and naturally from

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numbers to vectors to the four fundamental subspaces. This new edition includes challenge problems at the end of each section. Preview five complete sections at [math.mit.edu/linearalgebra](http://math.mit.edu/linearalgebra). Readers can also view freely available online videos of Gilbert Strang's 18.06 linear algebra course at MIT, via OpenCourseWare ([ocw.mit.edu](http://ocw.mit.edu)), that have been watched by over a million viewers. Also on the web (<http://web.mit.edu/18.06/www/>), readers will find years of MIT exam questions, MATLAB help files and problem sets to practise what they have learned.

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Linear algebra has become the subject to know for people in quantitative disciplines of all kinds. No longer the exclusive domain of mathematicians and engineers, it is now used everywhere there is data and everybody who works with data needs to know more. This new book from Professor Gilbert Strang, author of the acclaimed Introduction to Linear Algebra, now in its fifth edition, makes linear algebra accessible to everybody, not just those with a strong background in mathematics. It takes a more active start, beginning by finding independent columns of small matrices, leading

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to the key concepts of linear combinations and rank and column space. From there it passes on to the classical topics of solving linear equations, orthogonality, linear transformations and subspaces, all clearly explained with many examples and exercises. The last major topics are eigenvalues and the important singular value decomposition, illustrated with applications to differential equations and image compression. A final optional chapter explores the ideas behind deep learning.

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used either as a semester-long course in differential equations, or as a one-year course in differential equations, linear algebra, and applications. Beginning with the basics of differential equations, it covers first and second order equations, graphical and numerical methods, and matrix equations. The book goes on to present the fundamentals of vector spaces, followed by eigenvalues and eigenvectors, positive definiteness, integral transform methods and applications to PDEs. The exposition illuminates the natural correspondence

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between solution methods for systems of equations in discrete and continuous settings. The topics draw on the physical sciences, engineering and economics, reflecting the author's distinguished career as an applied mathematician and expositor.

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The renowned mathematician and educator Gilbert Strang presents a collection of

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essays have in common is the  
way that they express both  
the importance and the  
beauty of the subject, as  
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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.

Renowned applied mathematician Gilbert Strang teaches applied mathematics

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with the clear explanations, examples and insights of an experienced teacher. This book progresses steadily through a range of topics from symmetric linear systems to differential equations to least squares and Kalman filtering and optimization. It clearly demonstrates the power of matrix algebra in engineering problem solving. This is an ideal book (beloved by many readers) for a first course on applied mathematics and a reference for more advanced applied mathematicians. The only prerequisite is a basic course in linear algebra.

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