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Gilbert Strang is a Professor of Mathematics at

Massachusetts Institute of Technology and an

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Honorary Fellow of Balliol College, of the University of Oxford, UK. His current research interests include linear algebra, wavelets and filter banks, applied mathematics, and engineering mathematics.

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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.

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

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Support for the video production was provided by the Lord Foundation of Massachusetts under a grant to the MIT Center for Advanced Educational Services.

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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.

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Introduction to Linear Algebra. 4th ed. Wellesley-Cambridge Press, 2009. ISBN: 9780980232714. The Table of Contents, Preface, and selected chapters are freely available online. There is newer edition of the book: Strang, Gilbert. Introduction to Linear Algebra. 5th ed. Wellesley-Cambridge Press ...

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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 Algebra and Computational Science and Engineering and his lectures are freely available through MIT OpenCourseWare.

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Gilbert Strang - Wikipedia

This course parallels the combination of theory and applications in Professor Strang ' s textbook Introduction to Linear Algebra. The course picks out four key applications in the book: Graphs and Networks; Systems of Differential Equations; Least Squares and Projections; and Fourier Series and the Fast Fourier Transform. Course Description

Book Description: Gilbert Strang's textbooks have changed the entire approach to learning linear algebra

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-- 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, graph theory, statistics, Fourier methods and the FFT, linear programming, and computer graphics. Thousands of teachers in colleges and universities and now high schools are using this book, which truly explains this crucial subject.

Linear algebra is something all mathematics

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finding independent columns of small matrices, leading 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.

This leading textbook for first courses in linear algebra comes from the hugely experienced MIT lecturer and

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Discusses algorithms generally expressed in MATLAB for geodesy and global positioning. Three parts cover

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