

Linear Algebra For Everyone Gilbert Strang

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American Mathematical Society Cathy O'Neil David Pryde Gilbert Strang International Congress of Mathematicians (1974, Vancouver, British Columbia) Lynn Arthur Steen

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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 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

case studies and the code they use if you're familiar with linear algebra probability and statistics and have programming experience this book is an ideal introduction to data science topics include statistical inference exploratory data analysis and the data science process algorithms spam filters naive bayes and data wrangling logistic regression financial modeling recommendation engines and causality data visualization social networks and data journalism data engineering mapreduce pregel and hadoop doing data science is collaboration between course instructor rachel schutt senior vp of data science at news corp and data science consultant cathy o neil a senior data scientist at johnson research labs who attended and blogged about the course

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 an 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

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