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lecture notes for linear algebra provides instructors with a detailed lecture by lecture outline for a basic linear algebra course the ideas and examples presented in this e book are based on strang's video lectures for mathematics 18.06 and 18.065 available on mit's opencourseware [ocw.mit.edu](http://ocw.mit.edu) and youtube [youtube.com/mitocw](http://youtube.com/mitocw) readers will quickly gain a picture of the whole course the structure of the subject the key topics in a natural order and the connecting ideas that make linear algebra so beautiful

linear algebra now rivals or surpasses calculus in importance for people working in quantitative fields of all kinds engineers scientists economists and business people gilbert strang has taught linear algebra at mit for more than 50 years and the course he developed has become a model for teaching around the world his video lectures on mit opencourseware have been viewed over ten million times and his twelve textbooks are popular with readers worldwide this sixth edition of professor strang's most popular book introduction to linear algebra introduces the ideas of independent columns and the rank and column space of a matrix early on for a more active start then the book moves directly to the classical topics of linear equations fundamental subspaces least squares eigenvalues and singular values in each case expressing the key idea as a matrix factorization the final chapters of this edition treat optimization and learning from data the most active application of linear algebra today everything is explained thoroughly in professor strang's characteristic clear style it is sure to delight and inspire the delight and inspire the next generation of learners

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