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Introduction to Linear Algebra 作者简介
. Gilbert Strang was an
undergraduate at MIT and a Rhodes

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Scholar at Balliol College, Oxford. His Ph.D. was from UCLA and since then he has taught at MIT.

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10 Multiplying a linear combination of the columns gives the same $Ax = (18, 5, 0)$ and $(3, 4, 5, 5)$. By rows or by columns: 9 separate multiplications when A is 3 by 3.
11 Ax equals $(14, 22)$ and $(0, 0)$ and $(9, 7)$.

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12 Ax equals (z,y,x) and $(0,0,0)$ and $(3,6)$.

13 (a) x has components and A m components (b) Planes from each equation

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Chapter 1 (Introduction to Vectors)

Section 1.1 (Vectors and Linear

Combinations) Problem 16 (dimensions of

a cube in four dimensions) We can

generalize Problem 15 by stating that the

corners of a cube in four dimensions are

given by

$n(1,0,0,0)+m(0,1,0,0)+l(0,0,1,0)+p(0,0,0,1)$

, for indices n,m,l,p taken from $\{0,1\}$.

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The crucial operation in linear algebra is to take linear combinations of column vectors. This is exactly the result of a matrix-vector multiplication. Ax is a combination of the columns of A . When we take all combinations Ax of the column vectors, we get the column space.

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Linear Algebra (5th edition 2016) 1
Introduction to Vectors 1.1 Vectors and
Linear Combinations; 1.2 Lengths and

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Dot Products; 1.3 Matrices; 2 Solving Linear Equations 2.1 Vectors and Linear Equations; 2.2 The Idea of Elimination; 2.3 Elimination Using Matrices

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toward linear algebra. Working with curved lines and curved surfaces, the first step is always to linearize. Replace the curve by its tangent line, fit the surface by a plane, and the problem becomes linear. The power of this subject comes when you have ten variables, or 1000 variables, instead of two.

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These video lectures of Professor Gilbert Strang teaching 18.06 were recorded live in the Fall of 1999. 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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Linear algebra (as portrayed by this book) is a really beautiful field—much cleaner

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and often more intuitive than other areas at the same level (calculus, differential equations, etc.). It will activate a new part of your mind, and give you new ways to visualize problems in other domains.

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