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### Gilbert Strang Introduction To Linear

Gilbert Strang is a Professor of Mathematics at Massachusetts Institute of Technology and an 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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### Gilbert Strang's Homepage

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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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.

### Linear Algebra and Its Applications (Fourth Edition)

The column vectors are  $i = (1,0,0)$  and  $j = (0,1,0)$  and  $k = (0,0,1)$ . Then  $b = (2,3,4)$  is the linear combination  $2i + 3j + 4k$ . 2The planes in a row picture are the same:  $2x = 4$  is  $x = 2$ ,  $3y = 9 = 3$ , and  $4z = 16$  is  $z = 4$ . The solution is the same point  $X = x$ .

### MANUAL FOR INSTRUCTORS

Instructor: Gilbert Strang A matrix produces four subspaces: column space, row space (same dimension), the space of vectors perpendicular to all rows (the nullspace), and the space of vectors ...

### The Big Picture of Linear Algebra

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### Gilbert Strang's Bibliography

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