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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. If this space includes the vector b , we can solve the equation $Ax = b$.

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Introduction to Applied Linear Algebra

Chapter1 Linearspace 1.1.The definition of linearspace.Examples
The notion of linearspace came into existence in the 19th century to obtain a unifying principle for certain algebraic phenomena
...

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The front cover captures a central idea of linear algebra. $Ax = b$, solvable when b is in the (orange) column

space of A . One particular solution y is in the (red) row space: $Ay = b$.

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Chapters 8-12 are for a second course on linear algebra. About the Author Gilbert Strang is a Professor of Mathematics at Massachusetts Institute of Technology and an Honorary Fellow of Balliol College, of the University of Oxford.

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roduction to abstract linear algebra for undergraduates, possibly even first year students, specializing in mathematics. Linear algebra is one of the most applicable areas of mathematics.

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Introduction to Linear Algebra, by Gilbert Strang Fourth

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