

# Linear Algebra For Everyone Gilbert Strang

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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 illustrated with applications to differential equations and image compression a final optional chapter explores the ideas behind deep learning

this book provides students with the rudiments of linear algebra a fundamental subject for students in all areas of science and technology the book would also be good for statistics students studying linear algebra it is the translation of a successful textbook currently being used in italy the author is a mathematician sensitive to the needs of a general audience in addition to introducing fundamental ideas in linear algebra through a wide variety of interesting examples the book also discusses topics not usually covered in an elementary text e g the cost of operations generalized inverses approximate solutions the challenge is to show why the everyone in the title can find linear algebra useful and easy to learn the translation has been prepared by a native english speaking mathematician professor anthony v geramita

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book shows that everyone can use the mathematical relationships they already know to reason about new relationships in other words everyone can math

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no matter what he s called gerald bracey is public schools best defender and in this book he uses his considerable writing and research skills on their behalf

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