

Linear Algebra For Everyone

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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

absolutely everything you need to get ready for algebra scared of square roots suspicious of powers of ten you re not alone plenty of school age students and adult learners don t care for math but with the right guide you can make math basics click for you too in basic math pre algebra all in one for dummies you ll find everything you need to be successful in your next math class and tackle basic math tasks in the real world whether you re trying to get a handle on pre algebra before moving to the next grade or looking to get more comfortable with everyday math such as tipping calculations or balancing your checkbook this book walks you through every step in plain english and with clear explanations to help you build a firm foundation in math you ll also get practice quizzes at the end of each chapter to test your comprehension and understanding a bonus online quiz for each chapter with answer choices presented in multiple choice format a ton of explanations examples and practice problems that prepare you to tackle more advanced algebraic concepts from the different categories of numbers to mathematical operations fractions percentages roots and powers and a short intro to algebraic expressions and equations basic math pre algebra all in one for dummies is an essential companion for anyone who wants to get a handle on the foundational math concepts that are the building blocks for algebra and beyond

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this classic allows readers to easily build a valuable set of ideas and reference materials for actual classroom use designed to aid the teacher in understanding mathematical concepts and relationships the authors reflect recent recommendations from the national council of teachers of mathematics standards 2000

math is not rote memorizable math is not random guessable math is figure out able author pam harris argues that teaching real math math that is free of distortions will reach more students more effectively and result in deeper understanding and longer retention this book is about teaching undistorted math using the kinds of mental reasoning that mathematicians do memorization tricks and algorithms meant to make math easier are full of traps that sacrifice long term student growth for short lived gains students and teachers alike have been led to believe that they ve learned more and more math but in reality their brains never get any stronger using these tricks may make facts easier to memorize in isolation but that very disconnect distorts the reality of math the mountain of trivia piles up until students hit a breaking point humanity s most powerful system of understanding organizing and making an impact on the world becomes a soul draining exercise in confusion chaos and lost opportunities developing mathematical reasoning avoiding the trap of algorithms emphasizes the importance of teaching students increasingly sophisticated mathematical reasoning and understanding underlying concepts rather than relying on a set rule for solving problems this book illuminates a hierarchy of mathematical reasoning to help teachers guide students through various domains of

math development from basic counting and adding to more complex proportional and functional reasoning everyone is capable of understanding and doing real math this book highlights the important mathematical relationships strategies and models for students to develop offers personal stories reflection sections and extensive practical exercises for easy implementation includes real math a lot of it to provide teachers with examples they can put to use in their classrooms immediately this book is a valuable resource for educators looking to reach more students by building a strong foundation of mathematical thinking in their students by addressing common misconceptions about math and providing practical strategies for teaching real math this book shows that everyone can use the mathematical relationships they already know to reason about new relationships in other words everyone can math

this book consists of interviews with the most important mathematics educators of our time these interviews were originally published in the international journal for the history of mathematics education and are now being offered to a wider readership for the first time collected in a single volume among the individuals interviewed are scholars from brazil france germany russia the united kingdom and the united states who have made a significant impact on the development of mathematics education in their countries and internationally the interviews cover their biographies including their memories of their own studies in mathematics and their intellectual formation their experience as researchers and teachers and their visions of the history and future development of mathematics education the book will be of interest to anyone involved in research in mathematics education and anyone interested in the history of mathematics education

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

a guide to programs currently available on video in the areas of movies entertainment general interest education sports recreation fine arts health science business industry children juvenile how to instruction

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