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lecture notes for linear algebra provides instructors with a detailed lecture by lecture outline for a basic linear algebra course the ideas and examples presented in this e book are based on strang s video lectures for mathematics 18 06 and 18 065 available on mit s opencourseware ocw mit edu and youtube youtube com mitocw readers will quickly gain a picture of the whole course the structure of the subject the key topics in a natural order and the connecting ideas that make linear algebra so beautiful

linear algebra is something all mathematics undergraduates and many other students in subjects ranging from engineering to economics have to learn the fifth edition of this hugely successful textbook retains all the qualities of earlier editions while at the same time seeing numerous minor improvements and major additions the latter include a new chapter on singular values and singular vectors including ways to analyze a matrix of data a revised chapter on computing in linear algebra with professional level algorithms and code that can be downloaded for a variety of languages a new section on linear algebra and cryptography a new chapter on linear algebra in probability and statistics a dedicated and active website also offers solutions to exercises as well as new exercises from many different sources including practice problems exams and development of textbook examples plus codes in matlab julia and python

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

linear algebra and the foundations of deep learning together at last from professor gilbert strang acclaimed author of introduction to linear algebra comes linear algebra and learning from data the first textbook that teaches linear algebra together with deep learning and neural nets this readable yet rigorous textbook contains a complete course in the linear algebra and related mathematics that students need to know to get to grips with learning from data included are the four fundamental subspaces singular value decompositions special matrices large matrix computation techniques compressed sensing probability and statistics optimization the architecture of neural nets stochastic gradient descent and backpropagation

the renowned mathematician and educator gilbert strang presents a collection of expository papers on the theory and applications of linear algebra accompanied by video lectures on ocw mit edu the essays are diverse in scope and range from purely theoretical studies on deep fundamental principles of matrix algebra to discussions on the teaching of calculus and an examination of the mathematical foundations of aspects of computational engineering one thing these essays have in common is the way that they express both the importance and the beauty of the subject as well as the author's passion for mathematics this text will be of practical use to students and researchers across a whole spectrum of numerate disciplines furthermore this collection provides a unique perspective on mathematics and the communication thereof as a human endeavour complemented as these essays are by commentary from the author regarding their provenance and the reaction to them

differential equations and linear algebra are two central topics in the undergraduate mathematics curriculum this innovative textbook allows the two subjects to be developed either separately or together illuminating the connections between two fundamental topics and giving increased flexibility to instructors it can be used either as a semester long course in differential equations or as a one year course in differential equations linear algebra and applications beginning with the basics of differential equations it covers first and second order equations graphical and numerical methods and matrix equations the book goes on to present the fundamentals of vector spaces followed by eigenvalues and eigenvectors positive definiteness integral transform methods and applications to pdes the exposition illuminates the natural correspondence between solution methods for systems of equations in discrete and continuous settings the topics draw on

the physical sciences engineering and economics reflecting the author's distinguished career as an applied mathematician and expositor

includes detailed step by step solutions to selected odd numbered problems

this text combines the underlying theory discussions with examples from electrical engineering computer science physics biology and economics

full of features and applications this acclaimed textbook for upper undergraduate level and graduate level students includes all the major topics of computational linear algebra including solution of a system of linear equations least squares solutions of linear systems computation of eigenvalues eigenvectors and singular value problems drawing from numerous disciplines of science and engineering the author covers a variety of motivating applications when a physical problem is posed the scientific and engineering significance of the solution is clearly stated each chapter contains a summary of the important concepts developed in that chapter suggestions for further reading and numerous exercises both theoretical and matlab and matcom based the author also provides a list of key words for quick reference the matlab toolkit available online matcom contains implementations of the major algorithms in the book and will enable students to study different algorithms for the same problem comparing efficiency stability and accuracy

a comprehensive introduction to applied mathematics

this book introduces numerical issues that arise in linear algebra and its applications it touches on a wide range of techniques including direct and iterative methods orthogonal factorizations least squares eigenproblems and nonlinear equations detailed explanations on a wide range of topics from condition numbers to singular value decomposition are provided as well as material on nonlinear and linear systems numerical examples often based on discretizations of boundary value problems are used to illustrate concepts exercises with detailed solutions are provided at the end of the book and supplementary material and updates are available online this classics edition is appropriate for junior and senior undergraduate students and beginning graduate students in courses such as advanced numerical analysis special topics on numerical analysis topics on data science

topics on numerical optimization and topics on approximation theory

this book contains an extensive collection of exercises and problems that address relevant topics in linear algebra topics that the author finds missing or inadequately covered in most existing books are also included the exercises will be both interesting and helpful to an average student some are fairly routine calculations while others require serious thought the format of the questions makes them suitable for teachers to use in quizzes and assigned homework some of the problems may provide excellent topics for presentation and discussions furthermore answers are given for all odd numbered exercises which will be extremely useful for self directed learners in each chapter there is a short background section which includes important definitions and statements of theorems to provide context for the following exercises and problems

a concise insightful and elegant introduction to the field of numerical linear algebra designed for use as a stand alone textbook in a one semester graduate level course in the topic it has already been class tested by mit and cornell graduate students from all fields of mathematics engineering and the physical sciences the authors clear inviting style and evident love of the field along with their eloquent presentation of the most fundamental ideas in numerical linear algebra make it popular with teachers and students alike

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