

Introduction To Linear Algebra Gilbert Strang 4th Edition

Linear Algebra and Matrix Theory
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intended for a serious first course or a second course this textbook will carry students beyond eigenvalues and eigenvectors to the classification of bilinear forms to normal matrices to spectral decompositions and to the jordan form the authors approach their subject in a comprehensive and accessible manner presenting notation and terminology clearly and concisely and providing smooth transitions between topics the examples and exercises are well designed and will aid diligent students in understanding both computational and theoretical aspects in all the straightest smoothest path to the heart of linear algebra special features provides complete coverage of central material presents clear and direct explanations includes

classroom tested material bridges the gap from lower division to upper division work allows instructors alternatives for introductory or second level courses

linear algebra now rivals or surpasses calculus in importance for people working in quantitative fields of all kinds engineers scientists economists and business people gilbert strang has taught linear algebra at mit for more than 50 years and the course he developed has become a model for teaching around the world his video lectures on mit opencourseware have been viewed over ten million times and his twelve textbooks are popular with readers worldwide this sixth edition of professor strang s most popular book introduction to linear algebra introduces the ideas of independent columns and the rank and column space of a matrix early on for a more active start then the book moves directly to the classical topics of linear equations fundamental subspaces least squares eigenvalues and singular values in each case expressing the key idea as a matrix factorization the final chapters of this edition treat optimization and learning from data the most active application of linear algebra today everything is explained thoroughly in professor strang s characteristic clear style it is sure to delight and inspire the delight and inspire the next generation of learners

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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

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

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a comprehensive introduction to applied mathematics

the current exponential growth in graph data has forced a shift to parallel computing for executing graph algorithms implementing parallel graph algorithms and achieving good parallel performance have proven difficult this book addresses these challenges by exploiting the well known duality between a canonical representation of graphs as abstract collections of vertices and edges and a sparse adjacency matrix representation this linear algebraic approach is widely accessible to scientists and engineers who may not be formally trained in computer science the authors show how to leverage existing parallel matrix computation techniques and the large amount of software infrastructure that exists for these computations to implement efficient and scalable parallel graph algorithms the benefits of this approach are reduced algorithmic complexity ease of implementation and improved performance

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