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the fortran language standard has undergone significant upgrades in recent years 1990 1995 2003 and 2008 numerical computing with modern fortran illustrates many of these improvements through practical solutions to a number of scientific and engineering problems readers will discover techniques for modernizing algorithms written in fortran examples of fortran interoperating with c or c programs plus using the ieee floating point standard for efficiency illustrations of parallel fortran programming using coarrays mpi and openmp and a supplementary website with downloadable source codes discussed in the book

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

beginning with 1999 first issue of the year devoted to coverage of the international aseg conference and exhibition

an enlightening insight into the family dynamics surrounding contact with the justice system police courts and incarceration is interesting reading for researchers and students of family sociology and criminology

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

this set features linear algebra and its applications second edition 978 0 471 75156 4 linear algebra and its applications second edition presents linear algebra as the theory

and practice of linear spaces and linear maps with a unique focus on the analytical aspects as well as the numerous applications of the subject in addition to thorough coverage of linear equations matrices vector spaces game theory and numerical analysis the second edition features student friendly additions that enhance the book's accessibility including expanded topical coverage in the early chapters additional exercises and solutions to selected problems beginning chapters are devoted to the abstract structure of finite dimensional vector spaces and subsequent chapters address convexity and the duality theorem as well as describe the basics of normed linear spaces and linear maps between normed spaces further updates and revisions have been included to reflect the most up to date coverage of the topic including the qr algorithm for finding the eigenvalues of a self adjoint matrix the householder algorithm for turning self adjoint matrices into tridiagonal form the compactness of the unit ball as a criterion of finite dimensionality of a normed linear space additionally eight new appendices have been added and cover topics such as the fast fourier transform the spectral radius theorem the lorentz group the compactness criterion for finite dimensionality the characterization of commentators proof of liapunov's stability criterion the construction of the jordan canonical form of matrices and carl pearcy's elegant proof of halmos conjecture about the numerical range of matrices clear concise and superbly organized linear algebra and its applications second edition serves as an excellent text for advanced undergraduate and graduate level courses in linear algebra its comprehensive treatment of the subject also makes it an ideal reference or self study for industry professionals and functional analysis 978 0 471 55604 6 both by peter d lax

the emergence of satellite technology has changed the lives of millions of people in particular gps has brought an unprecedented level of accuracy to the field of geodesy this text is a guide to the algorithms and mathematical principles that account for the success of gps technology and replaces the authors previous work linear algebra geodesy and gps 1997 an initial discussion of the basic concepts characteristics and technical aspects of different satellite systems is followed by the necessary mathematical content which is presented in a detailed and self contained fashion at the heart of the matter are the positioning algorithms on which gps technology relies the discussion of which will affirm the mathematical contents of the previous chapters numerous ready to use matlab codes are included for the reader this comprehensive guide will be invaluable for engineers and academic researchers who wish to master the theory and practical application of gps technology

Álgebra lineal y los fundamentos del aprendizaje profundo juntos por fin del profesor gilbert strang aclamado autor de introducción al álgebra lineal llega Álgebra lineal en ciencia de datos el primer libro de texto que enseña álgebra lineal junto con aprendizaje profundo y redes neuronales este libro de texto ameno pero riguroso contiene un curso completo de álgebra lineal y de la matemática relacionada que los estudiantes deben saber para familiarizarse con el aprendizaje a partir de los datos se incluyen los cuatro subespacios fundamentales descomposición en valores singulares matrices especiales técnicas de cálculo con matrices grandes compressed sensing probabilidad y estadística optimización arquitectura de redes neuronales descenso por gradiente estocástico y retropropagación

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