

Numerical Linear Algebra

AND APPLICATIONS

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Biswa Nath Datta

Numerical Linear Algebra And Applications

William Ford, David Stapleton



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Numerical Linear Algebra for Applications in Statistics James E Gentle, 1998-08-13 *Numerical Linear Algebra and Applications* Biswa Nath Datta, 2008 *Numerical linear algebra with applications* [Anonymus AC11153555], 1994 *Numerical Linear Algebra: Theory and Applications* Larisa Beilina, Evgenii Karchevskii, Mikhail Karchevskii, 2017-09-19 This book combines a solid theoretical background in linear algebra with practical algorithms for numerical solution of linear algebra problems Developed from a number of courses taught repeatedly by the authors the material covers topics like matrix algebra theory for linear systems of equations spectral theory vector and matrix norms combined with main direct and iterative numerical methods least squares problems and eigenproblems Numerical algorithms illustrated by computer programs written in MATLAB are also provided as supplementary material on SpringerLink to give the reader a better understanding of professional numerical software for the solution of real life problems Perfect for a one or two semester course on numerical linear algebra matrix computation and large sparse matrices this text will interest students at the advanced undergraduate or graduate level *Numerical Linear Algebra and Its Applications* Xiao-Qing Jin, 2015

Guaranteed Accuracy in Numerical Linear Algebra S.K. Godunov, A.G. Antonov, O.P. Kiriljuk, V.I. Kostin, 1993-06-30 There exists a vast literature on numerical methods of linear algebra In our bibliography list which is by far not complete we included some monographs on the subject 46 15 32 39 11 21 The present book is devoted to the theory of algorithms for a single problem of linear algebra namely for the problem of solving systems of linear equations with non full rank matrix of coefficients The solution of this problem splits into many steps the detailed discussion of which are interesting problems on their own bidiagonalization of matrices computation of singular values and eigenvalues procedures of deflation of singular values etc Moreover the theory of algorithms for solutions of the symmetric eigenvalues problem is closely related to the theory of solving linear systems Householder's algorithms of bidiagonalization and tridiagonalization eigenvalues and singular values etc It should be stressed that in this book we discuss algorithms which to computer programs having the virtue that the accuracy of computations is guaranteed As far as the final program product is con

cerned this means that the user always finds an unambiguous solution of his problem This solution might be of two kinds 1 Solution of the problem with an estimate of errors where also lutely all errors of input data and machine round offs are taken into account 2

Numerical Linear Algebra on High-Performance Computers Jack J. Dongarra,Iain S. Duff,Danny C. Sorensen,Henk A. van der Vorst,1998-01-01 Provides a rapid introduction to the world of vector and parallel processing for these linear algebra applications

Applied Numerical Linear Algebra William W. Hager,2022-01-21 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

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Numerical Linear Algebra with Applications Mathematisches Forschungsinstitut, 1994

Introduction to Numerical Linear Algebra Christoph B"orgers, 2022-02-16 This textbook on numerical methods for linear algebra problems presents detailed explanations that beginning students can read on their own allowing instructors to go beyond lecturing and making it suitable for a flipped classroom The author covers several topics not commonly addressed in related introductory books including diffusion a toy model of computed tomography global positioning systems the use of eigenvalues in analyzing stability of equilibria and multigrid methods A detailed derivation and careful motivation of the QR method for eigenvalues starting from power iteration is also included as is a discussion of the use of the SVD for grading Introduction to Numerical Linear Algebra is appropriate for undergraduate and beginning graduate students in mathematics and related fields It assumes that the reader has taken a course on linear algebra but reviews background as needed It is intended as a textbook for a one semester course on numerical linear algebra and provides background and tools for a range of application areas including data science

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