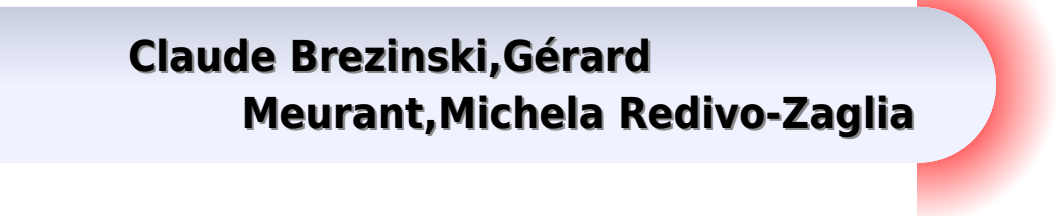


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**Claude Brezinski, Gérard
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Guaranteed Accuracy in Numerical Linear Algebra S.K. Godunov,A.G. Antonov,O.P. Kiriljuk,V.I. Kostin,1993-06-30 There exists a vast literature on numerical methods of linear 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 interest ing 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 solv ing 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 com lead putations 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 abso lutely all errors of input data and machine round offs are taken into account 2

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

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Numerical Linear Algebra William Layton, Myron Mike Sussman, 2020-07-14 The numerical algorithms presented are written in pseudocode and based on MATLAB a programming and numeric computing platform widely used in STEM fields Thus no formal training in computer science or knowledge of any specific programming language is needed to parse the algorithms Summing up Recommended CHOICE Many students come to numerical linear algebra from science and engineering seeking modern tools and an understanding of how the tools work and their limitations Often their backgrounds and experience are extensive in applications of numerical methods but limited in abstract mathematics and matrix theory Often enough it is limited to multivariable calculus basic differential equations and methods of applied mathematics This book introduces modern tools of numerical linear algebra based on this background heavy in applied analysis but light in matrix canonical forms and their algebraic properties Each topic is presented as algorithmic ideas and through a foundation based on mostly applied analysis By picking a path through the book appropriate for the level it has been used for both senior level undergraduates and beginning graduate classes with students from diverse fields and backgrounds

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An Introduction to Numerical Linear Algebra Leslie Fox, 1967

[Numerical Linear Algebra with Applications](#) William Ford, David Stapleton, 2025-06-10 Numerical Linear Algebra with Applications Using MATLAB and Octave Second Edition provides practical knowledge on modern computational techniques for the numerical solution of linear algebra problems The book offers a unified presentation of computation basic algorithm analysis and numerical methods to compute solutions Useful to readers regardless of background the text begins with six introductory courses to provide background for those who haven't taken applied or theoretical linear algebra This approach offers a thorough explanation of the issues and methods for practical computing using MATLAB as the vehicle for computation Appropriate for advanced undergraduate and early graduate courses on numerical linear algebra this useful textbook explores numerous applications to engineering and science Features six introductory chapters to provide the required background for readers without coursework in applied or theoretical linear algebra Offers a thorough discussion of the algorithms necessary for the accurate computation of the solution to the most frequently occurring problems in numerical linear algebra Provides illustrative examples from engineering and science applications Includes online teaching support for qualified instructors Solutions Manual PowerPoint Slides and study materials for students Text examples Algorithms

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students in most STEM fields and is appropriate for courses in numerical linear algebra It may also serve as a reference for researchers in various fields who depend on numerical solvers in linear algebra **Numerical Linear Algebra** William Layton, Myron Sussman, 2020-07-03

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