

The Algebraic Eigenvalue Problem

The Algebraic Eigenvalue Problem Templates for the Solution of Algebraic Eigenvalue Problems *The Algebraic Eigenvalue Problem* *The Algebraic Eigenvalue Problem* *The Algebraic Eigenvalue Problem* *An Oscillation Theorem for Algebraic Eigenvalue Problems and its Applications* *ARPACK Users' Guide* *An Introduction to Inverse Algebraic Eigenvalue Problems* *The Algebraic Eigenvalue Problem*, By J.H. Wilkinson *Templates for the Solution of Algebraic Eigenvalue Problems* *The Algebraic Eigenvalue Problem* *On the condition number of the algebraic eigenvalue problem* *Some Topics in the Numerical Solution of the Algebraic Eigenvalue Problem* *An oscillation theorem for algebraic eigenvalue problems and i* *The Symmetric Eigenvalue Problem* *A modern computational solution of the algebraic eigenvalue problem* *The Matrix Eigenvalue Problem* *Numerical Methods for Large Eigenvalue Problems* *Transformation Methods to Solve the Algebraic Eigenvalue Problem* *The Algebraic Eigenvalue Problem : a Commentary on Some Computer Programs* *J. H. Wilkinson Zhaojun Bai James H. Wilkinson J. H. Wilkinson April Louise Aguirre Neel Frank William Sinden Richard B. Lehoucq Shu-fang Xu James Hardy Wilkinson Zhaojun Bai Ole H. Hald Janex Grad Frank W. Sinden Beresford N. Parlett Southwestern College David S. Watkins Yousef Saad Chun-Chin Sy G. M. L. Gladwell*

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large scale problems of engineering and scientific computing often require solutions of eigenvalue and related problems this book gives a unified overview of theory algorithms and practical software for eigenvalue problems it organizes this large body of material to make it accessible for the first time to the many nonexpert users who need to choose the best state of the art algorithms and software for their problems using an informal decision tree just enough theory is introduced to identify the relevant mathematical structure that determines the best algorithm for each problem

this book is a guide to understanding and using the software package arpack to solve large algebraic eigenvalue problems the software described is based on the implicitly restarted arnoldi method which has been heralded as one of the three most important advances in large scale eigenanalysis in the past ten years the book explains the acquisition installation capabilities and detailed use of the software for computing a desired subset of the eigenvalues and eigenvectors of large sparse standard or generalized eigenproblems it also discusses the underlying theory and algorithmic background at a level that is accessible to the general practitioner

algebraische inverse eigenwertprobleme behandeln die frage wie man die elemente einer matrix aus den spektralwerten bestimmen kann dies ist ein zentrales thema in vielen problemkreisen z b kontrolltheorie molekularspektroskopie geologie

mathematics of computing numerical analysis

according to parlett vibrations are everywhere and so too are the eigenvalues associated with them as mathematical models invade more and more disciplines we can anticipate a demand for eigenvalue calculations in an ever richer variety of contexts anyone who performs these calculations will welcome the reprinting of parlett s book originally published in 1980 in this unabridged amended version parlett covers aspects of the problem that are not easily found elsewhere the chapter titles convey the scope of the material succinctly the aim of the book is to present mathematical knowledge that is needed in order to understand the art of computing eigenvalues of real symmetric matrices either all of them or only a few the author explains why the selected information really matters and he is not shy about making judgments the commentary is lively but the proofs are terse the first nine chapters are based on a matrix on which it is possible to make similarity transformations explicitly the only source of error is inexact arithmetic the last five chapters turn to large sparse matrices and the task of making approximations and judging them

an in depth theoretical discussion of the two most important classes of algorithms for solving matrix eigenvalue problems

this revised edition discusses numerical methods for computing the eigenvalues and eigenvectors of large sparse matrices it provides an in depth view of the numerical methods that are applicable for solving matrix eigenvalue problems that arise in various engineering and scientific applications each chapter was updated by shortening or deleting outdated topics adding topics of more recent interest and adapting the notes and references section significant changes have been made to chapters 6 through 8 which describe algorithms and their implementations and now include topics such as the implicit restart techniques the jacobi davidson method and automatic multilevel substructuring

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