

ScaLAPACK Users' Guide

L. S. Blackford - J. Choi - A. Cleary - E. D'Azevedo
J. Demmel - I. Dhillon - J. Dongarra - S. Hammarling
G. Henry - A. Petitet - K. Stanley - D. Walker - R. C. Whaley

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Spectral Methods in MATLAB Lloyd N. Trefethen, 2000-01-01 This is the only book on spectral methods built around MATLAB programs Along with finite differences and finite elements spectral methods are one of the three main technologies for solving partial differential equations on computers Since spectral methods involve significant linear algebra and graphics they are very suitable for the high level programming of MATLAB This hands on introduction is built around forty short and powerful MATLAB programs which the reader can download from the World Wide Web **Parallel MATLAB for**

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Performance Optimization of Numerically Intensive Codes Stefan Goedecker, Adolfo Hoisie, 2001-01-01 Performance

Optimization of Numerically Intensive Codes offers a comprehensive tutorial style hands on introductory and intermediate level treatment of all the essential ingredients for achieving high performance in numerical computations on modern computers The authors explain computer architectures data traffic and issues related to performance of serial and parallel code optimization exemplified by actual programs written for algorithms of wide interest The unique hands on style is achieved by extensive case studies using realistic computational problems The performance gain obtained by applying the techniques described in this book can be very significant The book bridges the gap between the literature in system architecture the one in numerical methods and the occasional descriptions of optimization topics in computer vendors literature It also allows readers to better judge the suitability of certain computer architecture to their computational requirements In contrast to standard textbooks on computer architecture and on programming techniques the book treats these topics together at the level necessary for writing high performance programs The book facilitates easy access to these topics for computational scientists and engineers mainly interested in practical issues related to efficient code development

A Software Repository for Gaussian Quadratures and Christoffel Functions Walter Gautschi,2020-10-30 This companion piece to the author s 2018 book *A Software Repository for Orthogonal Polynomials* focuses on Gaussian quadrature and the related Christoffel function The book makes Gauss quadrature rules of any order easily accessible for a large variety of weight functions and for arbitrary precision It also documents and illustrates known as well as original approximations for Gauss quadrature weights and Christoffel functions The repository contains 60 datasets each dealing with a particular weight function Included are classical quasi classical and most of all nonclassical weight functions and associated orthogonal polynomials Scientists engineers applied mathematicians and statisticians will find the book of interest *Parallel*

Processing for Scientific Computing Michael A. Heroux,Padma Raghavan,Horst D. Simon,2006-01-01 Parallel processing has been an enabling technology in scientific computing for more than 20 years This book is the first in depth discussion of parallel computing in 10 years it reflects the mix of topics that mathematicians computer scientists and computational scientists focus on to make parallel processing effective for scientific problems Presently the impact of parallel processing on scientific computing varies greatly across disciplines but it plays a vital role in most problem domains and is absolutely essential in many of them *Parallel Processing for Scientific Computing* is divided into four parts The first concerns performance modeling analysis and optimization the second focuses on parallel algorithms and software for an array of problems common to many modeling and simulation applications the third emphasizes tools and environments that can ease and enhance the process of application development and the fourth provides a sampling of applications that require parallel computing for scaling to solve larger and realistic models that can advance science and engineering **Numerically**

Solving Polynomial Systems with Bertini Daniel J. Bates,Jonathan D. Hauenstein,Andrew J. Sommese,Charles W. Wampler,2013-11-08 This book is a guide to concepts and practice in numerical algebraic geometry the solution of systems of

polynomial equations by numerical methods Through numerous examples the authors show how to apply the well received and widely used open source Bertini software package to compute solutions including a detailed manual on syntax and usage options The authors also maintain a complementary web page where readers can find supplementary materials and Bertini input files Numerically Solving Polynomial Systems with Bertini approaches numerical algebraic geometry from a user s point of view with numerous examples of how Bertini is applicable to polynomial systems It treats the fundamental task of solving a given polynomial system and describes the latest advances in the field including algorithms for intersecting and projecting algebraic sets methods for treating singular sets the nascent field of real numerical algebraic geometry and applications to large polynomial systems arising from differential equations Those who wish to solve polynomial systems can start gently by finding isolated solutions to small systems advance rapidly to using algorithms for finding positive dimensional solution sets curves surfaces etc and learn how to use parallel computers on large problems These techniques are of interest to engineers and scientists in fields where polynomial equations arise including robotics control theory economics physics numerical PDEs and computational chemistry *Graph Algorithms in the Language of Linear Algebra* Jeremy Kepner,John Gilbert,2011-08-04 An introduction to graph algorithms accessible to those without a computer science background

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