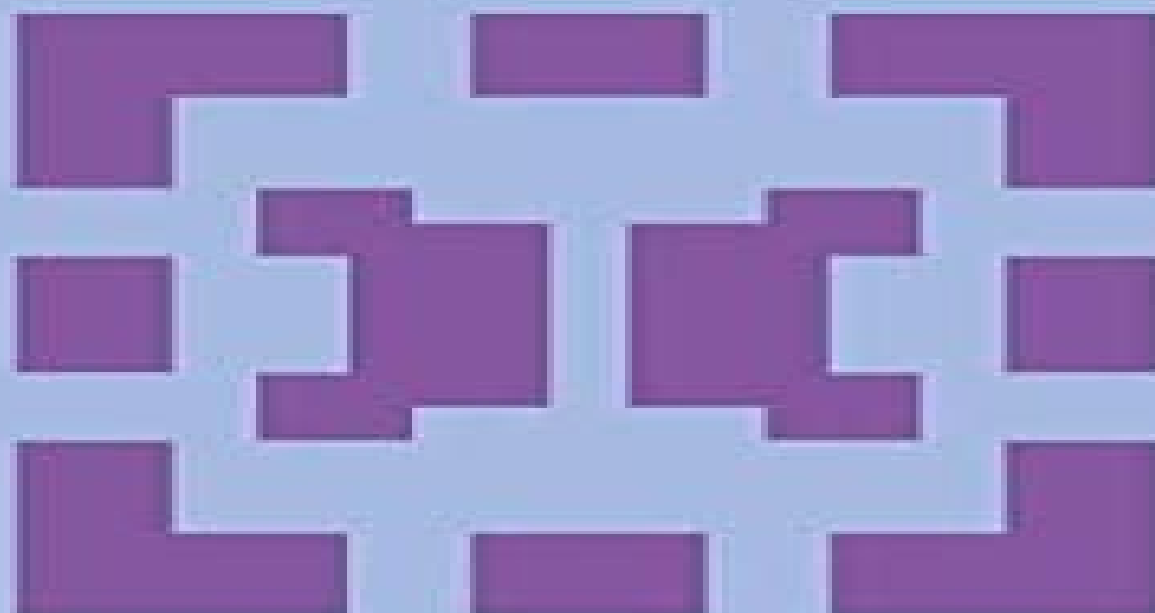


Mathematics and Its Applications

Marián Vajteršic

Algorithms for Elliptic Problems

Efficient Sequential and Parallel Solvers



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Algorithms for Elliptic Problems Marián Vajtersic, 2013-03-09 This volume deals with problems of modern effective algorithms for the numerical solution of the most frequently occurring elliptic partial differential equations From the point of view of implementation attention is paid to algorithms for both classical sequential and parallel computer systems The first two chapters are devoted to fast algorithms for solving the Poisson and biharmonic equation In the third chapter parallel algorithms for model parallel computer systems of the SIMD and MIMD types are described The implementation aspects of parallel algorithms for solving model elliptic boundary value problems are outlined for systems with matrix pipeline and multiprocessor parallel computer architectures A modern and popular multigrid computational principle which offers a good opportunity for a parallel realization is described in the next chapter More parallel variants based in this idea are presented whereby methods and assignments strategies for hypercube systems are treated in more detail The last chapter presents VLSI designs for solving special tridiagonal linear systems of equations arising from finite difference approximations of elliptic problems For researchers interested in the development and application of fast algorithms for solving elliptic partial differential equations using advanced computer systems

A Tutorial on Elliptic PDE Solvers and Their Parallelization Craig C. Douglas, Gundolf Haase, Ulrich Langer, 2003-01-01 This compact yet thorough tutorial is the perfect introduction to the basic concepts of solving partial differential equations PDEs using parallel numerical methods In just eight short chapters the authors provide readers with enough basic knowledge of PDEs discretization methods solution techniques parallel computers parallel programming and the run time behavior of parallel algorithms to allow them to understand develop and implement parallel PDE solvers Examples throughout the book are intentionally kept simple so that the parallelization strategies are not dominated by technical details

Encyclopedia of Parallel Computing David Padua, 2011-09-08 Containing over 300 entries in an A Z format the Encyclopedia of Parallel Computing provides easy intuitive access to relevant information for professionals and researchers seeking access to any aspect within the broad field of parallel computing Topics for this comprehensive reference were selected written and peer reviewed by an international pool of distinguished researchers in the field The Encyclopedia is broad in scope covering machine organization programming languages algorithms and applications Within each area concepts designs and specific implementations are presented The highly structured essays in this work comprise synonyms a definition and discussion of the topic bibliographies and links to related literature Extensive cross references to other entries within the Encyclopedia support efficient user friendly searchers for immediate access to useful information Key concepts presented in the Encyclopedia of Parallel Computing include laws and metrics specific numerical and non numerical algorithms asynchronous algorithms libraries of subroutines benchmark suites applications sequential consistency and cache coherency machine classes such as clusters shared memory multiprocessors special purpose machines and dataflow machines specific machines such as Cray

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Numerical Methods for Black-Box Software in Computational Continuum Mechanics Sergey I. Martynenko, 2023-10-24 The organization of the material is presented as follows This introductory chapter I represents a theoretical analysis of the computational algorithms for a numerical solution of the basic equations in continuum mechanics In this chapter the general requirements for computational grids discretization and iterative methods for black box software are examined Finally a concept of a two grid algorithm for de coupled solving multidimensional non linear initial boundary value problems in continuum mechanics multiphysics simulation in complex domains is presented Chapter II contains descriptions of the sequential Robust Multigrid Technique which is developed as a general purpose solver in black box codes This chapter presents the main components of the Robust Multigrid Technique RMT used in the two grid algorithm Chapter I to compute the auxiliary structured grid correction This includes the generation of multigrid structures computation of index mapping and integral evaluation Finite volume discretization on the multigrid structures will be explained by studying a 1D linear model problem In addition the algorithmic complexity of RMT and black box optimization of the problem dependent components of RMT are analysed Chapter III provides a description of parallel RMT This chapter introduces parallel RMT based algorithms for solving the boundary value problems and initial boundary value problems in unified manner Section 1 presents a comparative analysis of the parallel RMT and the sequential V cycle Sections 2 and 3 present a geometric and an algebraic parallelism of RMT i e parallelization of the smoothing iterations on the coarse and the levels A parallel multigrid cycle will be considered in Section 4 A parallel RMT for the time dependent problems is given in Section 5 Finally the basic properties of parallel RMT will be summarized in Section 6 Theoretical aspects of the used algorithms for solving multidimensional problems are discussed in Chapters IV This chapter contains the theoretical aspects of the algorithms used for the numerical solving of the resulting system of linear algebraic equations obtained from discrete multidimensional initial boundary value problems

Parallelism in Matrix Computations Efstratios Gallopoulos, Bernard Philippe, Ahmed H. Sameh, 2015-07-25 This book is primarily intended as a research monograph that could also be used in graduate courses for the design of parallel algorithms in matrix computations It assumes general but not extensive knowledge of numerical linear algebra parallel architectures and parallel programming paradigms The book consists of four parts I Basics II Dense and Special Matrix Computations III Sparse Matrix Computations and IV Matrix functions and characteristics Part I deals with

parallel programming paradigms and fundamental kernels including reordering schemes for sparse matrices Part II is devoted to dense matrix computations such as parallel algorithms for solving linear systems linear least squares the symmetric algebraic eigenvalue problem and the singular value decomposition It also deals with the development of parallel algorithms for special linear systems such as banded Vandermonde Toeplitz and block Toeplitz systems Part III addresses sparse matrix computations a the development of parallel iterative linear system solvers with emphasis on scalable preconditioners b parallel schemes for obtaining a few of the extreme eigenpairs or those contained in a given interval in the spectrum of a standard or generalized symmetric eigenvalue problem and c parallel methods for computing a few of the extreme singular triplets Part IV focuses on the development of parallel algorithms for matrix functions and special characteristics such as the matrix pseudospectrum and the determinant The book also reviews the theoretical and practical background necessary when designing these algorithms and includes an extensive bibliography that will be useful to researchers and students alike The book brings together many existing algorithms for the fundamental matrix computations that have a proven track record of efficient implementation in terms of data locality and data transfer on state of the art systems as well as several algorithms that are presented for the first time focusing on the opportunities for parallelism and algorithm robustness

Multiscale and Multiresolution Methods Timothy J. Barth, Tony Chan, Robert

Haijmes, 2012-12-06 Many computationally challenging problems omnipresent in science and engineering exhibit multiscale phenomena so that the task of computing or even representing all scales of action is computationally very expensive unless the multiscale nature of these problems is exploited in a fundamental way Some diverse examples of practical interest include the computation of fluid turbulence structural analysis of composite materials terabyte data mining image processing and a multitude of others This book consists of both invited and contributed articles which address many facets of efficient multiscale representation and scientific computation from varied viewpoints such as hierarchical data representations multilevel algorithms algebraic homogenization and others This book should be of particular interest to readers interested in recent and emerging trends in multiscale and multiresolution computation with application to a wide range of practical problems

Parallel Solution of Partial Differential Equations Mitchell Barry Luskin, 2000 The papers in this volume are based on lectures given at the IMA workshop on the Parallel Solution of PDE during June 9-13 1997 The numerical solution of partial differential equations has been of major importance to the development of many technologies and has been the target of much of the development of parallel computer hardware and software Parallel computer offers the promise of greatly increased performance and the routine calculation of previously intractable problems This volume contains papers on the development and assessment of new approximation and solution techniques that can take advantage of parallel computers It will be of interest to applied mathematicians computer scientists and engineers concerned with investigating the state of the art and future directions in numerical computing Topics include domain decomposition methods parallel

multi grid methods front tracking methods sparse matrix techniques adaptive methods fictitious domain methods and novel time and space discretizations Applications discussed include fluid dynamics radiative transfer solid mechanics and semiconductor simulation Scientific Computing in Object-Oriented Parallel Environments Yutaka Ishikawa,1997-11-19 Content Description Includes bibliographical references and index *Parallel Computational Fluid Dynamics 2000* C.B. Jenssen,T. Kvamdal,H.I. Andersson,B. Pettersen,P. Fox,N. Satofuka,A. Ecer,Jacques Periaux,2001-04-27 Parallel CFD 2000 the Twelfth in an International series of meetings featuring computational fluid dynamics research on parallel computers was held May 22 25 2000 in Trondheim Norway Following the trend of the past conferences areas such as numerical schemes and algorithms tools and environments load balancing as well as interdisciplinary topics and various kinds of industrial applications were all well represented in the work presented In addition for the first time in the Parallel CFD conference series the organizing committee chose to draw special attention to certain subject areas by organizing a number of special sessions We feel the emphasis of the papers presented at the conference reflect the direction of the research within parallel CFD at the beginning of the new millennium It seems to be a clear tendency towards increased industrial exploitation of parallel CFD Several presentations also demonstrated how new insight is being achieved from complex simulations and how powerful parallel computers now make it possible to use CFD within a broader interdisciplinary setting Obviously successful application of parallel CFD still rests on the underlying fundamental principles Therefore numerical algorithms development tools and parallelization techniques are still as important as when parallel CFD was in its infancy Furthermore the novel concepts of affordable parallel computing as well as metacomputing show that exciting developments are still taking place As is often pointed out however the real power of parallel CFD comes from the combination of all the disciplines involved Physics mathematics and computer science This is probably one of the principal reasons for the continued popularity of the Parallel CFD Conferences series as well as the inspiration behind much of the excellent work carried out on the subject We hope that the papers in this book both on an individual basis and as a whole will contribute to that inspiration Further details of Parallel CFD 99 as well as other conferences in this series are available at <http://www.parcfd.org> **Mathematical Reviews** ,2005

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