ITERATIVE INCOMPLETE FACTORIZATION METHODS

V P Il'in

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Iterative Incomplete Factorization Methods

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Iterative Incomplete Factorization Methods:

    Iterative Incomplete Factorization Methods Valery P Il'in,1992-07-23 This book is devoted to numerical methods for solving sparse linear algebra systems of very large dimension which arise in the implementation of the mesh approximations of the partial differential equations Incomplete factorization is the basis of the wide class of preconditioning interative processes with acceleration by conjugate gradients or the Chebyshev technique Different kinds of explicit and implicit algorithms are considered Theoretical grounds of correctness and estimates of the convergence velocity of iterations are presented Together with the results of experimental investigations for the typical examples this book is the first on systematic studying of the incomplete factorization methods   **Iterative Solution Methods** Owe Axelsson,1996-03-29 This book deals primarily with the numerical solution of linear systems of equations by iterative methods The first part of the book is intended to serve as a textbook for a numerical linear algebra course The material assumes the reader has a basic knowledge of linear algebra such as set theory and matrix algebra however it is demanding for students who are not afraid of theory To assist the reader the more difficult passages have been marked the definitions for each chapter are collected at the beginning of the chapter and numerous exercises are included throughout the text The second part of the book serves as a monograph introducing recent results in the iterative solution of linear systems mainly using preconditioned conjugate gradient methods This book should be a valuable resource for students and researchers alike wishing to learn more about iterative methods   <u>Iterative Methods for Sparse Linear Systems</u> Yousef Saad,2003-04-01 Mathematics of Computing General   <u>Iterative Methods and Preconditioning for Large and Sparse Linear Systems with Applications</u> Daniele Bertaccini,Fabio Durastante,2018-02-19 This book describes in a basic way the most useful and effective iterative solvers and appropriate preconditioning techniques for some of the most important classes of large and sparse linear systems The solution of large and sparse linear systems is the most time consuming part for most of the scientific computing simulations Indeed mathematical models become more and more accurate by including a greater volume of data but this requires the solution of larger and harder algebraic systems In recent years research has focused on the efficient solution of large sparse and or structured systems generated by the discretization of numerical models by using iterative solvers   *Templates for the Solution of Linear Systems* Richard Barrett,Michael W. Berry,Tony F. Chan,James Demmel,June Donato,Jack Dongarra,Victor Eijkhout,Roldan Pozo,Charles Romine,Henk van der Vorst,1994-01-01 In this book which focuses on the use of iterative methods for solving large sparse systems of linear equations templates are introduced to meet the needs of both the traditional user and the high performance specialist Templates a description of a general algorithm rather than the executable object or source code more commonly found in a conventional software library offer whatever degree of customization the user may desire Templates offer three distinct advantages they are general and reusable they are not language specific and they exploit the expertise of both the numerical analyst who creates a template reflecting in depth

knowledge of a specific numerical technique and the computational scientist who then provides value added capability to the general template description customizing it for specific needs For each template that is presented the authors provide a mathematical description of the flow of algorithm discussion of convergence and stopping criteria to use in the iteration suggestions for applying a method to special matrix types advice for tuning the template tips on parallel implementations and hints as to when and why a method is useful   Application of Krylov Subspace Iterative Techniques to the Numerical Solution of the Neutron Transport Equation Bruce Wayne Patton,1996   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   Soviet Journal of Numerical Analysis and Mathematical Modelling ,1990   **Iterative Methods in Scientific Computing and Their Applications** Raymond Chan,1997-04 Because of the rapid evolution of the development of this field as well as the fact that iterative methods are not often developed in a generic form for general applications there is a lack of published materials that treat the topic properly and fully These lectures from the Winter School on Iterative Methods in Scientific Computing and their Applications aims to bridge such a gap in the literature   Algebraic Multilevel Iteration Methods with Applications ,1996   **Russian Journal of Numerical Analysis and Mathematical Modelling** ,2001   **Iterative Methods for Large Linear Systems** David Ronald Kincaid,Linda J. Hayes,1990 Very Good No Highlights or Markup all pages are intact   **Iterative Methods and Parallel Computation for Power Systems** Hasan Dağ,1996   Advances in Multi-Grid Methods Dietrich Braess,Wolfgang Hackbusch,Ulrich Trottenberg,1985 During the week of December 8 13 1984 a conference on Multi Grid Methods was held at the Mathematisches Forschungs institut Mathematical Research Institute in Oberwolfach The conference was suggested by the GAMM Committee Effiziente numerische Verfahren fÜr partielle Differentialgleichungen We were pleased to have 42 participants from 12 countries These proceedings contain some contributions to the confe rence The centre of interest in the more theoretical contri butions were exact convergence proofs for multi grid method Here the theoretical foundation for the application of the method to the Stokes equations the biharmonic equation in its formulation as a mixed finite element

problem and other more involved problems were investigated Moreover improvements and new attacks for getting quantitative results on convergence rates were reported Another series of contributions was concerned with the de velopment of highly efficient and fast algorithms for various partial differential equations Also in this framework the Stokes and the biharmonic equations were investigated Other lectures treated problems from fluid mechanics as Navier Stokes and Euler equations the dam problem and eigenvalue problems The editors would like to thank Professor M Barner the director of Mathematisches Forschungsinstitut Oberwolfach for making this conference possible D Braess Bochum W Hackbusch Kiel U Trottenberg St Augustin v CONTENTS O AXELSSON A mixed variable finite element method for the efficient solution of nonlinear diffusion and pot tial flow equations **SIAM Journal on Scientific and Statistical Computing** Society for Industrial and Applied Mathematics,1992 Computing Methods in Applied Sciences and Engineering R. Glowinski,Jacques-Louis Lions,Institut de recherche d'informatique et d'automatique,1980 **Philosophical Transactions** ,2003 *Bulletin of the Novosibirsk Computing Center* ,1993 SIAM Journal on Scientific Computing ,2009 Conference Proceedings ,1999

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