Notes on Numerical Fluid Mechanics

Volume 49

Fast Solvers for Flow Problems

Edited by
Wolfgang Hackbusch and
Gabriel Wittum

Fast Solvers For Flow Problems

G Thomas

Fast Solvers For Flow Problems:

   Fast Solvers for Flow Problems Wolfgang Hackbusch,Gabriel Wittum,1995   **Fast Solvers for Flow Problems** Wolfgang Hackbusch,Gabriel Wittum,2013-09-03   *Multigrid Methods* Stephen F. McCormick,1987-12-01 A thoughtful consideration of the current level of development of multigrid methods this volume is a carefully edited collection of papers that addresses its topic on several levels The first three chapters orient the reader who is familiar with standard numerical techniques to multigrid methods first by discussing multigrid in the context of standard techniques second by detailing the mechanics of use of the method and third by applying the basic method to some current problems in fluid dynamics The fourth chapter provides a unified development complete with theory of algebraic multigrid AMG which is a linear equation solver based on multigrid principles The last chapter is an ambitious development of a very general theory of multigrid methods for variationally posed problems Included as an appendix is the latest edition of the Multigrid Bibliography an attempted compilation of all existing research publications on multigrid   **IABEM Symposium on Boundary Integral Methods for Nonlinear Problems** Luigi Morino,Wolfgang L. Wendland,2012-12-06 Proceedings of the IABEM Symposium held in Pontignano Italy May 28 June 3 1995   *Flow Simulation with High-performance Computers I* Ernst-Heinrich Hirschel,1993   *Application of New Algorithms for the Simulation of Multidisciplinary Problems* Rainald Löhner,Chi Yang,2004   *Scientific and Technical Aerospace Reports* ,1983 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database   **SIAM Journal on Scientific Computing** ,2007   **Calculation of Complex Turbulent Flows** George Tzabiras,2000 A selection of invited chapters focusing on developments in the application of Computational Fluid Dynamics CFD to compressible or incompressible flows dominated by turbulence effects These may be applied to complex geometrical configurations or flow fields in simpler geometries requiring higher order turbulence modelling or suitably modified low order models to calculate crucial parameters such as instabilities transition separation accurate description of velocity and scalar fields and local and total forces   ECARP European Computational Aerodynamics Research Project,1997   **Incompressible Flow and the Finite Element Method: Incompressible Flow and the Finite Element Method & Advection-Diffusion and Isothermal Laminar Flow (Combined Edition)** P. M. Gresho,R. L. Sani,Michael S. Engelman,1998-06-18 This comprehensive reference work covers all the important details regarding the application of the finite element method to incompressible flows It addresses the theoretical background and the detailed development of appropriate numerical methods applied to the solution of a wide range of incompressible flows beginning with extensive coverage of the advection diffusion equation in volume one For both this equation and the equations of principal interest the Navier Stokes equations covered in detail in volume two detailed discussion of both the continuous and discrete equations is presented as well as explanations of how to properly march the time dependent equations using

smart implicit methods Boundary and initial conditions so important in applications are carefully described and discussed including well posedness The important role played by the pressure so confusing in the past is carefully explained Together this two volume work explains and emphasizes consistency in six areas consistent mass matrix consistent pressure Poisson equation consistent penalty methods consistent normal direction consistent heat flux consistent forces Fully indexed and referenced this book is an essential reference tool for all researchers students and applied scientists in incompressible fluid mechanics **Incompressible Flow and the Finite Element Method, Volume 2** P. M. Gresho,R. L. Sani,2000-06-22 This comprehensive two volume reference covers the application of the finite element method to incompressible flows in fluid mechanics addressing the theoretical background and the development of appropriate numerical methods applied to their solution Volume One provides extensive coverage of the prototypical fluid mechanics equation the advection diffusion equation For both this equation and the equations of principal interest the Navier Stokes equations covered in detail in Volume Two a discussion of both the continuous and discrete equations is presented as well as explanations of how to properly march the time dependent equations using smart implicit methods Boundary and initial conditions so important in applications are carefully described and discussed including well posedness The important role played by the pressure so confusing in the past is carefully explained The book explains and emphasizes consistency in six areas consistent mass matrix consistent pressure Poisson equation consistent penalty methods consistent normal direction consistent heat flux consistent forces Fully indexed and referenced this book is an essential reference tool for all researchers students and applied scientists in incompressible fluid mechanics *Computational Fluid Dynamics '94* Siegfried Wagner,1994 This two volume work consists of the proceedings of the invited lectures and the special technological sessions of the Second European Computational Fluid Dynamics Conference September 94 Stuttgart Germany **Numerical Treatment of Coupled Systems** Wolfgang Hackbusch,Gabriel Wittum,1995 The coupling considered in this volume may be of physical or numerical nature Examples of the first kind are the solid fluid interactions microelectronic systems and the coupled modelling in groundwater flow Examples of the latter kind are the domain or subspace decomposition the local defect correction method and the very important FEM BEM coupling Numerical Methods for Fluids, Part 3 P.G. Ciarlet,Jacques-Louis Lions,1990 This book size article is dedicated to the numerical simulation of unsteady incompressible viscous flow modelled by the Navier Stokes equations or by non Newtonian variants of them In order to achieve this goal a methodology has been developed based on four key tools Time discretization by operator splitting schemes such as Peaceman Rachford s Douglas Rachford s Marchuk Yanenko s Strang s symmetrized and the so called theta scheme introduced by the author in the mid 1980s Projection methods in L2 or H1 for the treatment of the incompressibility condition div u 0 Treatment of the advection by either a centered scheme leading to linear or nonlinear advection diffusion problems solved by least squares conjugate gradient algorithms or to a linear wave like equation well suited to finite element based solution methods Space

approximation by finite element methods such as Hood Taylor and Bercovier Pironneau which are relatively easy to implement conjugate gradient algorithms least squares methods for boundary value problems which are not equivalent to problems of the calculus of variations Uzawa type algorithms for the solution of saddle point problems embedding fictitious domain methods for the solution of elliptic and parabolic problems In fact many computational methods discussed in this article also apply to non CFD problems although they were mostly designed for the solution of flow problems Among the topics covered are the direct numerical simulation of particulate flow computational methods for flow control splitting methods for viso plastic flow a la Bingham and more It should also be mentioned that most methods discussed in this article are illustrated by the results of numerical experiments including the simulation of three dimensional flow easy to implement as is demonstrated by the fact that several practitioners in various institutions have been able to use them ab initio for the solution of complicated flow and other problems   Fast Multipole Solvers for Three-Dimensional Radiation and Fluid Flow Problems ,1998 A number of physics problems can be modeled by a set of N elements which have pair wise interactions with one another The use of such elements for the evolution of vorticity in fluid flows and the calculation of the velocity field from the evolving vorticity field is well known Fast multipole methods for fluid flow problems have been developed in we pmt to reduce computational effort to something less than O N In this paper we develop a fast multipole solver with application to both 3 D radiation problems calculation of the heat flux from the evolving temperature field in an absorbing medium and 3 D fluid flow This is accomplished by using a more general kernel for the associated volume integrals This kernel also encompasses other applications such as gravitational fields electrostatics scattering etc The present algorithm has been designed to have a very high parallel efficiency when used on massively parallel computers This feature comes at the expense of computational effort which is less than O N but greater than O N or O MnN   **Mathematical Reviews** ,2004

   Applied Mechanics Reviews ,1984   **Boundary Elements: Implementation and Analysis of Advanced Algorithms** Wolfgang Hackbusch,Gabriel Wittum,1996-11 The GAMM Committee for Efficient Numerical Methods for Partial Differential Equations organizes seminars and workshops on subjects concerning the algorithmic treatment of partial differential equations The topics are discretisation methods like the finite element and the boundary element method for various type of applications in struc tural and fluid mechanics Particular attention is devoted to advanced solution method The latest seminar in this series was the 12th Kiel Seminar which took place on January 19 21 1996 at Christian Albrechts University of Kiel and focussed on the topic Boundary Elements Implementation and Analysis of Advanced Algorithms The seminar was attended by 65 scientists from 10 countries 23 lectures were given including two survey lectures In the last years a remarkable progress in the numerical treatment of boundary de ment methods BEM has been obtained in Germany This is in particular a res I1t of a Schwerpunktverfahren supported by the DFG Many aspects of the BEM are not ouly analysed but also implemented Therefore these proceedings present a number of papers on implementational aspects besides

the analysis of advanced techniques   <u>34th Aerospace Sciences Meeting & Exhibit</u> ,1996

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