

Multigrid Methods for Finite Elements

by

V. V. Shaidurov

*Computing Center,
Russian Academy of Sciences,
Siberian Branch,
Krasnoyarsk, Russia*



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Michal Rosen-Zvi



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Multigrid Methods for Finite Elements V.V. Shaidurov, 2013-03-09 Multigrid Methods for Finite Elements combines two rapidly developing fields finite element methods and multigrid algorithms At the theoretical level Shaidurov justifies the rate of convergence of various multigrid algorithms for self adjoint and non self adjoint problems positive definite and indefinite problems and singular and spectral problems At the practical level these statements are carried over to detailed concrete problems including economical constructions of triangulations and effective work with curvilinear boundaries quasilinear equations and systems Great attention is given to mixed formulations of finite element methods which allow the simplification of the approximation of the biharmonic equation the steady state Stokes and Navier Stokes problems

Multigrid Finite Element Methods for Electromagnetic Field Modeling Yu Zhu, Andreas C. Cangellaris, 2006-02-03 This is the first comprehensive monograph that features state of the art multigrid methods for enhancing the modeling versatility numerical robustness and computational efficiency of one of the most popular classes of numerical electromagnetic field modeling methods the method of finite elements The focus of the publication is the development of robust preconditioners for the iterative solution of electromagnetic field boundary value problems BVPs discretized by means of finite methods Specifically the authors set forth their own successful attempts to utilize concepts from multigrid and multilevel methods for the effective preconditioning of matrices resulting from the approximation of electromagnetic BVPs using finite methods Following the authors careful explanations and step by step instruction readers can duplicate the authors results and take advantage of today s state of the art multigrid multilevel preconditioners for finite element based iterative electromagnetic field solvers Among the highlights of coverage are Application of multigrid multilevel and hybrid multigrid multilevel preconditioners to electromagnetic scattering and radiation problems Broadband robust numerical modeling of passive microwave components and circuits Robust finite element based modal analysis of electromagnetic waveguides and cavities Application of Krylov subspace based methodologies for reduced order macromodeling of electromagnetic devices and systems Finite element modeling of electromagnetic waves in periodic structures The authors provide more than thirty detailed algorithms alongside pseudo codes to assist readers with practical computer implementation In addition each chapter includes an applications section with helpful numerical examples that validate the authors methodologies and demonstrate their computational efficiency and robustness This groundbreaking book with its coverage of an exciting new enabling computer aided design technology is an essential reference for computer programmers designers and engineers as well as graduate students in engineering and applied physics

A Multigrid Tutorial William L. Briggs, Van Emden Henson, Steve F. McCormick, 2000-01-01 This second edition preserves the introductory spirit of the first edition while roughly doubling the amount of material covered The topics of the first edition have been enhanced with additional discussion new numerical experiments and improved figures New topics in the second edition include nonlinear equations

Neumann boundary conditions variable mesh and variable coefficient problems anisotropic problems algebraic multigrid AMG adaptive methods and finite elements This introductory book is ideally suited as a companion textbook for graduate numerical analysis courses It is written for computational mathematicians engineers and other scientists interested in learning about multigrid **Algebraic Multigrid Methods for Large Scale Finite Element Equations** Stefan

Reitzinger,2001 **multigrid methods** Stephen F. McCormick,2020-08-12 This book is a collection of research papers on a wide variety of multigrid topics including applications computation and theory It represents proceedings of the Third Copper Mountain Conference on Multigrid Methods which was held at Copper Mountain Colorado **Multigrid Methods** Abner J.

Salgado,Steven M. Wise,Calvin Wong,2025-12-04 This book introduces the theory and application of multigrid methods for the fast numerical solution of linear and weakly nonlinear elliptic PDE No previous exposure to numerical discretization methods is assumed All that is required of the reader is curiosity and some basic knowledge of matrix theory and the theory of finite dimensional vector spaces We use an axiomatic mostly matrix based approach in the book both as a way of presenting the theory in a natural and simple setting and as a means for translating the theory into practical codes We deviate a little from the matrix based approach in the presentation of the framework for nonlinear problems in the latter part of the book That nonlinear analysis based on subspace decompositions represents an area of current research In fact the book takes the reader all the way from the basics and simple implementation issues to the front lines of multigrid research Coding the multigrid method is notoriously difficult The current book which contains several sample codes in the finite element and cell centered finite difference frameworks will train the interested reader in the construction of sophisticated efficient multigrid codes using the simple but powerful MATLAB programming environment **Multigrid Methods** Steven

M. Wise,Abner J. Salgado,Calvin Wong,2025-12-15 This book introduces the theory of multigrid methods for the fast numerical solution of linear and weakly nonlinear elliptic PDE We use the finite element method to discretize the PDE problems as this is the most natural choice and the reader will get a thorough treatment of finite elements No previous exposure to numerical discretization methods is assumed All that is required of the reader is some knowledge of matrix theory Coding the multigrid method is difficult This book will help the reader build basic multigrid codes using easy to read sample Matlab codes We use a matrix based approach in the first part of the book both as a way of presenting the theory in a natural way and as a means for translating the theory into practical codes The operators in the text and codes have the same names which makes reading the sample codes simple even if the reader has never coded We deviate from the matrix based approach only in the presentation of the nonlinear theory in the second part which represents an area of current research The book takes the reader from the basics and simple implementation issues all the way to the front lines of research

MULTIGRID METHODS FOR NONCONFORMING FINITE ELEMENTS. Susanne C. Brenner,1988 of the error can be accurately captured on the coarser grid Furthermore since the error correction is done on a coarser grid less computational

work is involved The multigrid method is optimal in the sense that the cost of computation is proportional to the number of unknowns

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

Fast and Accurate Finite-Element Multigrid Solvers for PDE Simulations on GPU Clusters Dominik Göttsche, 2011 This dissertation demonstrates that graphics processors GPUs as representatives of emerging many core architectures are very well suited for the fast and accurate solution of large sparse linear systems of equations using parallel multigrid methods on heterogeneous compute clusters Such systems arise for instance in the discretisation of elliptic partial differential equations with finite elements Fine granular parallelisation techniques and methods to ensure accuracy are developed that enable at least one order of magnitude speedup over highly tuned conventional CPU implementations without sacrificing neither accuracy nor functionality

Matrix-Based Multigrid Yair Shapira, 2003 This is an introduction to and analysis of the multigrid approach for the numerical solution of large sparse linear systems arising from the discretization of elliptic partial differential equations It gives special attention to the powerful matrix based multigrid approach which is particularly useful for problems with variable coefficients and nonsymmetric and indefinite problems grids but also to more realistic applications with complicated grids and domains and discontinuous coefficients The dissertation draws connections between multigrid and other iterative methods such as domain decomposition The theoretical background provides insight about the nature of multigrid algorithms and how and why they work The theory is written in simple algebraic terms and therefore requires preliminary knowledge only to basic linear algebra and calculus

Multi-Grid Methods and Applications Wolfgang Hackbusch, 2013-03-09 Multi grid methods are the most efficient tools for solving elliptic boundary value problems The reader finds here an elementary introduction to multi grid algorithms as well as a comprehensive convergence analysis One section describes special applications convection diffusion equations singular perturbation problems eigenvalue problems etc The book also contains a complete presentation of the multi grid method of the second kind which has important applications to integral equations e g the panel method and to numerous other problems Readers with a practical interest in multi grid methods will benefit from this book as well as readers with a more theoretical interest

Seventh Copper Mountain Conference on Multigrid Methods, 1996 *Immersed Finite*

Element Method for Interface Problems with Algebraic Multigrid Solver Wenqiang Feng, 2013 This thesis is to discuss the bilinear and 2D linear immersed finite element IFE solutions generated from the algebraic multigrid solver for both stationary and moving interface problems In contrast to the body fitting mesh restriction of the traditional finite element methods or finite difference methods for interface problems a number of numerical methods based on structured meshes independent of the interface have been developed When these methods are applied to the real world applications we often need to solve the corresponding large scale linear systems many times which demands efficient solvers The algebraic multigrid AMG method is a natural choice since it is independent of the geometry which may be very complicated in interface problems However for those methods based on finite difference formulation and a structured mesh independent of the interface the stiffness matrix of the linear system is usually not symmetric positive definite which demands extra efforts to design efficient multigrid methods On the other hand the stiffness matrix arising from the IFE methods are naturally symmetric positive definite Hence the IFE AMG algorithm is proposed to solve the linear systems of the bilinear and 2D linear IFE methods for both stationary and moving interface problems after the IFE and multi grid methods are reviewed respectively The numerical examples demonstrate the features of the proposed algorithm including the optimal convergence in both L2 and semi H1 norms of the IFE AMG solutions the high efficiency with proper choice of the components and parameters of AMG the influence of the tolerance and the smoother type of AMG on the convergence of the IFE solutions for the interface problems and the relationship between the cost and the moving interface location Abstract page iii

Computation and Applied Mathematics, 1998 *Towards Robust Algebraic Multigrid Methods for Nonsymmetric Problems* James Lottes, 2017-03-24 This thesis presents a rigorous abstract analysis of multigrid methods for positive nonsymmetric problems particularly suited to algebraic multigrid with a completely new approach to nonsymmetry which is based on a new concept of absolute value for nonsymmetric operators Multigrid and in particular algebraic multigrid has become an indispensable tool for the solution of discretizations of partial differential equations While used in both the symmetric and nonsymmetric cases the theory for the nonsymmetric case has lagged substantially behind that for the symmetric case This thesis closes some of this gap presenting a major and highly original contribution to an important problem of computational science The new approach to nonsymmetry will be of interest to anyone working on the analysis of discretizations of nonsymmetric operators even outside the context of multigrid The presentation of the convergence theory may interest even those only concerned with the symmetric case as it sheds some new light on and extends existing results

Multigrid Methods for the Biharmonic Problem Discretized by Conforming C1 Finite Elements on Nonnested Meshes James Bramble, Xuejun Zhang, 1994 *Seventh Copper Mountain Conference on Multigrid Methods* N. Duane Melson, 1996
Proceedings of the Fourth Copper Mountain Conference on Multigrid Methods Jan Mandel, 1989-01-01 *Advances in Multi-Grid Methods* Dietrich Braess, Wolfgang Hackbusch, Ulrich Trottenberg, 2013-09-03

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