Stability Estimates of the Mortar Finite Element Method for 3-Dimensional Problems

Dietrich Braess, Wolfgang Dahmen

Abstract

This paper is concerned with the mortar finite element method for three spatial variables. The two main issues are the proof of the LBB condition based on appropriate choices of Lagrange multipliers and optimal efficiency of corresponding multigrid schemes for the whole coupled systems of equations. The implementation of the smoothing procedure also differs from that one used in the 2-dimensional case.

Key words: Mortar method, domain decomposition, saddle point problems, L_2-stability of mortar projections, multigrid algorithms, error estimates, efficiency of smoothing procedures.

AMS subject classification: 65N55, 65N30, 65F10, 46E35.

1 Introduction

The mortar method is a domain decomposition method with non-overlapping subdomains, see e.g. [1, 2, 3, 6]. The matching of discretizations on adjacent subdomains is only enforced weakly which, in particular, facilitates employing *different types* of discretizations on different subdomains. Even in the case when only finite elements are used on each subdomain, and this is the setting to be treated here, this still offers, in principle, the advantage of freely choosing highly varying mesh sizes on different subdomains. This is a very promising feature with regard to abruptly changing diffusion coefficients or local anisotropies.

We view such types of *physical properties* of the underlying problem as a major motivation for employing a mortar technique rather than parallelization. Therefore we are primarily interested in developing highly efficient *multigrid schemes* for the whole *coupled system* of equations.

In a recent paper [6] such a multigrid algorithm for mortar elements was developed and analyzed with primary focus on the case of two spatial variables. The analysis heavily

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The Finite Element Method for Three-Dimensional Thermomechanical Applications Guido Dhondt,2004-11-19 Though many finite element books exist this book provides a unique focus on developing the method for three dimensional industrial problems This is significant as many methods which work well for small applications fail for large scale problems which generally are not so well posed introduce stringent computer time conditions require robust solution techniques Starting from sound continuum mechanics principles derivation in this book focuses only on proven methods Coverage of all different aspects of linear and nonlinear thermal mechanical problems in solids are described thereby avoiding distracting the reader with extraneous solutions paths Emphasis is put on consistent representation and includes the examination of topics which are not frequently found in other texts such as cyclic symmetry rigid body motion and nonlinear multiple point constraints Advanced material formulations include anisotropic hyperelasticity large strain multiplicative viscoplasticity and single crystal viscoplasticity Finally the methods described in the book are implemented in the finite element software CalculiX which is freely available www calculix de the GNU General Public License applies Suited to industry practitioners and academic researchers alike The Finite Element Method for Three Dimensional Thermomechanical Applications expertly bridges the gap between continuum mechanics and the finite element method *Proceedings of International Conference on Finite Element Methods* International Conference on Finite Element Methods,2001   Mixed Finite Element Method Apostol Poceski,2012-12-06 In this book based on 16 years of work on the finite element method the author presents the essence of a new direct approach to the FEM The work is focused on the mixed method and shows how reliable results may be obtained with fewer equations than usual The basic principles the fundamentals and the essence of the FEM are presented then the method is applied to the analysis of one two and three dimensional problems It is shown that mixed elements offer superior accuracy compared with stiffness elements Finally some new achievements and perspectives for further development are presented The book is intended for undergraduate and graduate students mathematicians research engineers and practicing engineers To understand the book a familiarity with classical mechanics is sufficient   **Finite Element Method Electromagnetics** John L. Volakis,Arindam Chatterjee,Leo C. Kempel,1998-06-15 Employed in a large number of commercial electromagnetic simulation packages the finite element method is one of the most popular and well established numerical techniques in engineering This book covers the theory development implementation and application of the finite element method and its hybrid versions to electromagnetics FINITE ELEMENT METHOD FOR ELECTROMAGNETICS begins with a step by step textbook presentation of the finite method and its variations then goes on to provide up to date coverage of three dimensional formulations and modern applications to open and closed domain problems Worked out examples are included to aid the reader with the fine features of the method and the implementation of its hybridization with other techniques for a robust simulation of large scale radiation and scattering The crucial treatment of

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recommending in what situations they re best implemented It starts with a concise background on the theory required to understand the underlying functioning principles behind enriched finite element methods before outlining detailed instruction on implementation of the techniques in standard displacement based finite element codes The strengths and weaknesses of each are discussed as are computer implementation details including a standalone generalized finite element package written in Python The applications of the methods to a range of scenarios including multi phase fracture multiscale and immersed boundary fictitious domain problems are covered and readers can find ready to use code simulation videos and other useful resources on the companion website to the book Reviews various enriched finite element methods providing pros cons and scenarios forbest use Provides step by step instruction on implementing these methods Covers the theory of general and enriched finite element methods **The Finite Element Method** Darrell W. Pepper,Juan C. Heinrich,2005-10-31 This much anticipated second edition introduces the fundamentals of the finite element method featuring clear cut examples and an applications oriented approach Using the transport equation for heat transfer as the foundation for the governing equations this new edition demonstrates the versatility of the method for a wide range of applications including structural analysis and fluid flow Much attention is given to the development of the discrete set of algebraic equations beginning with simple one dimensional problems that can be solved by inspection continuing to two and three dimensional elements and ending with three chapters describing applications The increased number of example problems per chapter helps build an understanding of the method to define and organize required initial and boundary condition data for specific problems In addition to exercises that can be worked out manually this new edition refers to user friendly computer codes for solving one two and three dimensional problems Among the first FEM textbooks to include finite element software the book contains a website with access to an even more comprehensive list of finite element software written in FEMLAB MAPLE MathCad MATLAB FORTRAN C and JAVA the most popular programming languages This textbook is valuable for senior level undergraduates in mechanical aeronautical electrical chemical and civil engineering Useful for short courses and home study learning the book can also serve as an introduction for first year graduate students new to finite element coursework and as a refresher for industry professionals The book is a perfect lead in to Intermediate Finite Element Method Fluid Flow and Heat and Transfer Applications Taylor Francis 1999 Hb 1560323094 **Finite Elements Analysis** H. Lakshmininarayana,2004-10 This textbook has emerged from three decades of experience gained by the author in education research and practice The basic concepts mathematical models and computational algorithms supporting the Finite Element Method FEM are clearly and concisely developed **Finite Element Method with Applications in Engineering** Y. M. Desai,2011 The book explains the finite element method with various engineering applications to help students teachers engineers and researchers It explains mathematical modeling of engineering problems and approximate methods of analysis and different approaches *Applied Mechanics Reviews* ,1976 **Semiconductor Device Modelling** Christopher M.

Snowden,2012-12-06 Semiconductor device modelling has developed in recent years from being solely the domain of device physicists to span broader technological disciplines involved in device and electronic circuit design and develop ment The rapid emergence of very high speed high density integrated circuit technology and the drive towards high speed communications has meant that extremely small scale device structures are used in contempor ary designs The characterisation and analysis of these devices can no longer be satisfied by electrical measurements alone Traditional equivalent circuit models and closed form analytical models cannot always provide consis tently accurate results for all modes of operation of these very small devices Furthermore the highly competitive nature of the semiconductor industry has led to the need to minimise development costs and lead time associated with introducing new designs This has meant that there has been a greater demand for models capable of increasing our understanding of how these devices operate and capable of predicting accurate quantitative results The desire to move towards computer aided design and expert systems has reinforced the need for models capable of representing device operation under DC small signal large signal and high frequency operation It is also desirable to relate the physical structure of the device to the electrical performance This demand for better models has led to the introduction of improved equivalent circuit models and a upsurge in interest in using physical models   *Computational Methods for Heat and Mass Transfer* Pradip Majumdar,2005-09-28 The advent of high speed computers has encouraged a growing demand for newly graduated engineers to possess the basic skills of computational methods for heat and mass transfer and fluid dynamics Computational fluid dynamics and heat transfer as well as finite element codes are standard tools in the computer aided design and analysis of processes   **The Finite Element Method and Its Reliability** Ivo Babuška,Theofanis Strouboulis,2001 The finite element method is a numerical method widely used in engineering Experience shows that unreliable computation can lead to very serious consequences Hence reliability questions stand more and more at the forefront of engineering and theoretical interests The present book presents the mathematical theory of the finite element method and focuses on the question of how reliable computed results really are It addresses among other topics the local behaviour errors caused by pollution superconvergence and optimal meshes Many computational examples illustrate the importance of the theoretical conclusions for practical computations Graduate students lecturers and researchers in mathematics engineering and scientific computation will benefit from the clear structure of the book and will find this a very useful reference   **Finite Element Analysis in Geotechnical Engineering** David M Potts,Lidija Zdravkovic,Lidija Zdravković,2001 An insight into the use of the finite method in geotechnical engineering The first volume covers the theory and the second volume covers the applications of the subject The work examines popular constitutive models numerical techniques and case studies

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