



Scaled Boundary Finite Element Method

**Jian Guo Liang, Xun Wu, Wei Jun
Yang, Wei Zhen Chen**



Scaled Boundary Finite Element Method:

The Scaled Boundary Finite Element Method John P. Wolf, 2003-03-14 A novel computational procedure called the scaled boundary finite element method is described which combines the advantages of the finite element and boundary element methods. Of the finite element method that no fundamental solution is required and thus expanding the scope of application for instance to anisotropic material without an increase in complexity and that singular integrals are avoided and that symmetry of the results is automatically satisfied. Of the boundary element method that the spatial dimension is reduced by one as only the boundary is discretized with surface finite elements reducing the data preparation and computational efforts that the boundary conditions at infinity are satisfied exactly and that no approximation other than that of the surface finite elements on the boundary is introduced. In addition the scaled boundary finite element method presents appealing features of its own: an analytical solution inside the domain is achieved permitting for instance accurate stress intensity factors to be determined directly and no spatial discretization of certain free and fixed boundaries and interfaces between different materials is required. In addition the scaled boundary finite element method combines the advantages of the analytical and numerical approaches. In the directions parallel to the boundary where the behaviour is in general smooth the weighted residual approximation of finite elements applies leading to convergence in the finite element sense. In the third radial direction the procedure is analytical permitting e.g. stress intensity factors to be determined directly based on their definition or the boundary conditions at infinity to be satisfied exactly. In a nutshell the scaled boundary finite element method is a semi-analytical fundamental solution less boundary element method based on finite elements. The best of both worlds is achieved in two ways: with respect to the analytical and numerical methods and with respect to the finite element and boundary element methods within the numerical procedures. The book serves two goals: Part I is an elementary text without any prerequisites, a primer but which using a simple model problem still covers all aspects of the method and Part II presents a detailed derivation of the general case of statics, elastodynamics and diffusion.

The Scaled Boundary Finite Element Method Chongmin Song, 2018-06-19 An informative look at the theory, computer implementation and application of the scaled boundary finite element method. This reliable resource, complete with MATLAB, is an easy-to-understand introduction to the fundamental principles of the scaled boundary finite element method. It establishes the theory of the scaled boundary finite element method systematically as a general numerical procedure, providing the reader with a sound knowledge to expand the applications of this method to a broader scope. The book also presents the applications of the scaled boundary finite element to illustrate its salient features and potentials. *The Scaled Boundary Finite Element Method: Introduction to Theory and Implementation* covers the static and dynamic stress analysis of solids in two and three dimensions. The relevant concepts, theory and modelling issues of the scaled boundary finite element method are discussed and the unique features of the method are highlighted. The applications in computational fracture mechanics are detailed with numerical examples. A

unified mesh generation procedure based on quadtree octree algorithm is described It also presents examples of fully automatic stress analysis of geometric models in NURBS STL and digital images Written in lucid and easy to understand language by the co inventor of the scaled boundary element method Provides MATLAB as an integral part of the book with the code cross referenced in the text and the use of the code illustrated by examples Presents new developments in the scaled boundary finite element method with illustrative examples so that readers can appreciate the significant features and potentials of this novel method especially in emerging technologies such as 3D printing virtual reality and digital image based analysis The Scaled Boundary Finite Element Method Introduction to Theory and Implementation is an ideal book for researchers software developers numerical analysts and postgraduate students in many fields of engineering and science

The Scaled Boundary Finite Element Method for Plate Bending Problems Siriporn Thongpaknum,2016 This thesis presents an efficient and accurate semi analytical solution procedure based upon the scaled boundary finite element method SBFEM for modeling thin plates under transverse loadings and different types of boundary conditions The key formulation is established within the framework of Kirchhoff s plate bending theory A standard weighted residual technique is then applied together with the discretization along the scaled boundary direction to derive the scaled boundary finite element equations Standard implementations including the numerical integration the determination of eigenvalues and eigenvectors a procedure for solving a system of linear ordinary differential equations and a linear solver are adopted to construct all involved unknown functions An h hierarchical adaptive procedure with the moment recovery error estimator is also integrated into the present implementation to further enhance its computational performance and reduce meshing effort A selected set of results is reported to demonstrate the accuracy and convergence of computed solutions and the computational performance of the developed technique

The Scaled Boundary Finite Element Method Chongmin Song,2018-09-04 An informative look at the theory computer implementation and application of the scaled boundary finite element method This reliable resource complete with MATLAB is an easy to understand introduction to the fundamental principles of the scaled boundary finite element method It establishes the theory of the scaled boundary finite element method systematically as a general numerical procedure providing the reader with a sound knowledge to expand the applications of this method to a broader scope The book also presents the applications of the scaled boundary finite element to illustrate its salient features and potentials The Scaled Boundary Finite Element Method Introduction to Theory and Implementation covers the static and dynamic stress analysis of solids in two and three dimensions The relevant concepts theory and modelling issues of the scaled boundary finite element method are discussed and the unique features of the method are highlighted The applications in computational fracture mechanics are detailed with numerical examples A unified mesh generation procedure based on quadtree octree algorithm is described It also presents examples of fully automatic stress analysis of geometric models in NURBS STL and digital images Written in lucid and easy to understand language by the co inventor of the scaled boundary

element method Provides MATLAB as an integral part of the book with the code cross referenced in the text and the use of the code illustrated by examples Presents new developments in the scaled boundary finite element method with illustrative examples so that readers can appreciate the significant features and potentials of this novel method especially in emerging technologies such as 3D printing virtual reality and digital image based analysis The Scaled Boundary Finite Element Method Introduction to Theory and Implementation is an ideal book for researchers software developers numerical analysts and postgraduate students in many fields of engineering and science

Development of the Scaled Boundary Finite-element Method for Applications in Geomechanics James Peter Doherty,2004

Enhancing the Scaled Boundary Finite Element Method Thu Hang Vu,2006

Truncated abstract The scaled boundary finite element method is a novel computational method developed by Wolf and Song which reduces partial differential equations to a set of ordinary linear differential equations The method which is semi analytical is suitable for solving linear elliptic parabolic and hyperbolic partial differential equations The method has proved to be very efficient in solving various types of problems including problems of potential flow and diffusion The method out performs the finite element method when solving unbounded domain problems and problems involving stress singularities and discontinuities The scaled boundary finite element method involves solution of a quadratic eigenproblem the computational expense of which increases rapidly as the number of degrees of freedom increases Consequently to a greater extent than the finite element method it is desirable to obtain solutions at a specified level of accuracy while using the minimum number of degrees of freedom necessary In previous work no systematic study had been performed so far into the use of elements of higher order and no consideration made of p adaptivity The primal problem is solved normally using the basic scaled boundary finite element method The dual problem is solved by the new technique using the fundamental solution A guaranteed upper error bound based on the Cauchy Schwarz inequality is derived A iv goal oriented p hierarchical adaptive procedure is proposed and implemented efficiently in the scaled boundary finite element method

The Coupled Dual Boundary Element-scaled Boundary Finite Element Method for Efficient Fracture Mechanics Gareth Edward Bird,2012

Abstract A novel numerical method is presented for applications to general fracture mechanics problems in engineering The coupled dual boundary element scaled boundary finite element method DBE SBFEM incorporates the numerical accuracy of the SBFEM and the geometric versatility of the DBEM Background theory detailed derivations and literature reviews accompany the extensions made to the methods constituents necessary for their coupling as part of the present work The coupled DBE SBFEM its constituent components and their application to linear elastic fracture mechanics are critically assessed and presented with numerical examples to demonstrate both method convergence and improvements over previous work Further a proof of concept demonstrates an alternative formation of the DBEM that both negates the need for hyper singular integration and lends itself to a wider variety of imposed boundary conditions

Conclusions to this work are drawn and further recommendations for research in this area are made

Implementation of a

Python Version of a Scaled Boundary Finite Element Method for Plate Bending Analysis Lingfeng Chen (M. Eng), Massachusetts Institute of Technology. Department of Civil and Environmental Engineering, 2014 Common finite element programs for plate bending analysis are complicated and limited by the common plate theories. Such programs are usually not user friendly for designers to implement. Lately Hou Man et al from the University of New South Wales has developed a technique for unified 3D plate bending analysis using scaled boundary finite element analysis which promises to have little restrictions on plate thicknesses and faster convergence. This thesis presents an implementation of a python version of their method which when combined with a modeling program like Rhinoceros aids designers in studying plate bending behavior under static loading. It represents a first step in the development of interactive programs for structural design and analysis of plates.

Progress in Industrial and Civil Engineering III Jian Guo Liang, Xun Wu, Wei Jun Yang, Wei Zhen Chen, 2014-09-19 Selected peer reviewed papers from the 2014 3rd International Conference on Civil Architectural and Hydraulic Engineering ICCAHE 2014 July 30 31 2014 Hangzhou China Selected peer reviewed papers from the 2014 3rd International Conference on Civil Architectural and Hydraulic Engineering ICCAHE 2014 July 30 31 2014 Hangzhou China

Advances in Computational Structural Mechanics B. H. V. Topping, 1998 Contains a selection of papers presented at The First International Conference on Engineering Computational Technology and The Fourth International Conference on Computational Structures Technology held in Edinburgh from 18 20 August 1998

Applied Mechanics and Materials II Seung Bok Choi, Yun Hae Kim, Prasad Yarlagadda, 2013-12-19 Selected peer reviewed papers from the 2013 International Conference on Applied Mechanics and Materials ICAMM 2013 November 23 24 2013 Zhuhai China

Computational Mechanics - New Frontiers for the New Millennium Prof. N. Khalili, 2001-10-15 These Proceedings contain the papers presented at the 1st Asian Pacific Congress on Computational Mechanics held in Sydney on 20 23 November 2001. The theme of the first Congress of the Asian Pacific Association for Computational Mechanics in the new millennium is New Frontiers for the New Millennium. The papers cover such new frontiers as micromechanics, contact mechanics, environmental geomechanics, chemo thermo mechanics, inverse techniques, homogenization, meshless methods, smart materials, smart structures and graphic visualization besides the general topics related to the application of finite element and boundary element methods in structural mechanics, fluid mechanics, geomechanics and biomechanics.

Extending the Scaled Boundary Finite-element Method to Wave Diffraction Problems Boning Li, 2007 Truncated abstract The study reported in this thesis extends the scaled boundary finite element method to first order and second order wave diffraction problems. The scaled boundary finite element method is a newly developed semi analytical technique to solve systems of partial differential equations. It works by employing a special local coordinate system called scaled boundary coordinate system to define the computational field and then weakening the partial differential equation in the circumferential direction with the standard finite elements whilst keeping the equation strong in the radial direction finally analytically solving the resulting system of

equations termed the scaled boundary finite element equation This unique feature of the scaled boundary finite element method enables it to combine many of advantages of the finite element method and the boundary element method with the features of its own In this thesis both first order and second order solutions of wave diffraction problems are presented in the context of scaled boundary finite element analysis In the first order wave diffraction analysis the boundary value problems governed by the Laplace equation or by the Helmholtz equation are considered The solution methods for bounded domains and unbounded domains are described in detail The solution process is implemented and validated by practical numerical examples The numerical examples examined include well benchmarked problems such as wave reflection and transmission by a single horizontal structure and by two structures with a small gap wave radiation induced by oscillating bodies in heave sway and roll motions wave diffraction by vertical structures with circular elliptical rectangular cross sections and harbour oscillation problems The numerical results are compared with the available analytical solutions numerical solutions with other conventional numerical methods and experimental results to demonstrate the accuracy and efficiency of the scaled boundary finite element method The computed results show that the scaled boundary finite element method is able to accurately model the singularity of velocity field near sharp corners and to satisfy the radiation condition with ease It is worth nothing that the scaled boundary finite element method is completely free of irregular frequency problem that the Green s function methods often suffer from For the second order wave diffraction problem this thesis develops solution schemes for both monochromatic wave and bichromatic wave cases based on the analytical expression of first order solution in the radial direction It is found that the scaled boundary finite element method can produce accurate results of second order wave loads due to its high accuracy in calculating the first order velocity field

Concepts and Applications of Finite Element Analysis Robert D. Cook, 2001-10-29 This book has been thoroughly revised and updated to reflect developments since the third edition with an emphasis on structural mechanics Coverage is up to date without making the treatment highly specialized and mathematically difficult Basic theory is clearly explained to the reader while advanced techniques are left to thousands of references available which are cited in the text

Computational Mechanics S. Valliappan, N. Khalili, 2001 These Proceedings contain the papers presented at the 1st Asian Pacific Congress on Computational Mechanics held in Sydney on 20-23 November 2001 The theme of the first Congress of the Asian Pacific Association for Computational Mechanics in the new millennium is New Frontiers for the New Millennium The papers cover such new frontiers as micromechanics contact mechanics environmental geomechanics chemo thermo mechanics inverse techniques homogenization meshless methods smart materials smart structures and graphic visualization besides the general topics related to the application of finite element and boundary element methods in structural mechanics fluid mechanics geomechanics and biomechanics

Establishment of Subgrade Undercut Criteria and Performance of Alternative Stabilization Measures Roy H. Borden, 2010 The scope of this research includes the development of criteria to define the

need for undercutting the depth of the undercut and the quality of the backfill material such that the cost and performance are optimized In addition chemical stabilization and geosynthetics reinforcement in combination with several thicknesses of the ABC were studied to provide comparative criteria for the enhancement of various poor subgrade soils encountered in N C with or in lieu of undercut and replacement with select fill The criteria are presented along with the associated relative costs of each alternative *Mathematical Reviews* ,2007 Perfectly Matched Layers for Acoustic and Elastic Waves Ushnish Basu,2004 **Proceedings of the 1985 Pressure Vessels and Piping Conference: Computer-aided engineering** ,1985 Multigrid Equation Solvers of Large Scale Nonlinear Finite Element Simulations Mark Francis Adams,1998

Adopting the Tune of Term: An Emotional Symphony within **Scaled Boundary Finite Element Method**

In a global consumed by screens and the ceaseless chatter of quick transmission, the melodic splendor and psychological symphony developed by the published term usually diminish in to the back ground, eclipsed by the constant noise and interruptions that permeate our lives. Nevertheless, located within the pages of **Scaled Boundary Finite Element Method** a wonderful literary value overflowing with natural thoughts, lies an immersive symphony waiting to be embraced. Crafted by an outstanding composer of language, this interesting masterpiece conducts readers on an emotional journey, skillfully unraveling the concealed tunes and profound impact resonating within each cautiously crafted phrase. Within the depths of the emotional assessment, we shall explore the book is key harmonies, analyze their enthralling writing design, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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Scaled Boundary Finite Element Method Introduction

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