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The Wave Finite Element Method



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Donald A. French, Todd E. Peterson



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The Wave Finite Element Method Boris F. Shorr, 2012-12-06 Computational mechanics as a science employed for the numerical modeling of processes in nature and engineering has over the last few decades developed two strands. The first concerns the putting of more and more powerful software packages into computational practice using increasingly high performance computers with increasingly large memory. The traditional finite element and finite difference approaches are still prevalent. Over the years however researchers have met with new problems their solutions on the basis of traditional methods are at best difficult and at worst impossible to obtain. Such problems provided a powerful impetus in the development of the second strand resulting in the development of essentially new approaches for numerical modeling for example meshless methods molecular dynamics neuron networks. The current state of the art formed the basis of many papers presented at the Fifth World Congress on Computational Mechanics Vienna 2002. It is within the framework of the second strand that this book has been written.

The Wave Finite Element Method Boris F Shorr, 2003-11-17 *Finite Elements for Wave Electromagnetics* IEEE Antennas and Propagation Society, 1994 *Quick Finite Elements for Electromagnetic Waves* Giuseppe Pelosi, Roberto Coccioli, Stefano Selleri, 2009. The classic 1998 Artech House book *Quick Finite Elements for Electromagnetic Waves* has now been revised and expanded to bring you up to date with the latest developments in the field. You find brand new discussions on finite elements in 3D 3D resonant cavities and 3D waveguide devices. Moreover the second edition supplies you with MATLAB code making this resource easier to comprehend and use for your projects in the field. This practical book and accompanying software enables you to quickly and easily work out challenging microwave engineering and high frequency electromagnetic problems using the finite element method FEM. Using clear concise text and dozens of real world application examples the book provides a detailed description of FEM implementation while the software provides the code and tools needed to solve the three major types of EM problems guided propagation scattering and radiation. With this unique book and software set in hand you can compute the dispersion diagram of arbitrarily shaped inhomogeneous isotropic lossless or lossy guiding structures analyze E and H plane waveguide discontinuities and devices and understand the reflection from and transmission through simple 2D and 3D inhomogeneous periodic structures. CD ROM Included. Easy to use finite element software contains ready made MATLAB and FORTRAN source code that you can use immediately to solve a wide range of microwave and EM problems. The package is fully compatible with Internet freeware so you can perform advanced engineering functions without having to purchase expensive pre and post processing tools.

Spectral Finite Element Method Srinivasan Gopalakrishnan, Abir Chakraborty, Debiprosad Roy Mahapatra, 2007-12-05. This book is the first to apply the Spectral Finite Element Method SFEM to inhomogeneous and anisotropic structures in a unified and systematic manner. Readers will gain understanding of how to formulate Spectral Finite Element learn about wave behaviour in inhomogeneous and anisotropic media and be able to design some diagnostic

tools for monitoring the health of a structure Tables figures and graphs support the theory and case studies are included

A Finite Element Approach for Wave Propagation in Elastic Solids Arkadiusz Żak,2024-04-29 This book focuses on wave propagation phenomena in elastic solids modelled by the use of the finite element method Although the latter is a well established and popular numerical tool used by engineers and researchers all around the world the process of modelling of wave propagation can still be a challenge The book introduces a reader to the problem by presenting a historical background and offering a broad perspective on the development of modern science and numerical methods The principles of wave phenomena are clearly presented to the reader as well as the necessary background for understanding the finite element method which is the following chapter of the book is viewed from the modeller point of view Apart from the principles the book also addresses more advanced topics and problems including the use of the spectral finite element method the spline based finite element method as well as the problems of undesired and hidden properties of discrete numerical models **On Numerical Issues for the Wave/finite Element Method** Y. Waki,B. R. Mace,Michael John Brennan,University of Southampton. Institute of Sound and Vibration Research. Dynamics Group,2006 Wave Propagation in Channels Using the Finite Element Method Timothy G. Hughes,1976 **Guided Waves in Structures for SHM** Wieslaw Ostachowicz,Pawel Kudela,Marek Krawczuk,Arkadiusz Zak,2011-12-30 Understanding and analysing the complex phenomena related to elastic wave propagation has been the subject of intense research for many years and has enabled application in numerous fields of technology including structural health monitoring SHM In the course of the rapid advancement of diagnostic methods utilising elastic wave propagation it has become clear that existing methods of elastic wave modeling and analysis are not always very useful developing numerical methods aimed at modeling and analysing these phenomena has become a necessity Furthermore any methods developed need to be verified experimentally which has become achievable with the advancement of measurement methods utilising laser vibrometry Guided Waves in Structures for SHM reports on the simulation analysis and experimental investigation related propagation of elastic waves in isotropic or laminated structures The full spectrum of theoretical and practical issues associated with propagation of elastic waves is presented and discussed in this one study Key features Covers both numerical and experimental aspects of modeling analysis and measurement of elastic wave propagation in structural elements formed from isotropic or composite materials Comprehensively discusses the application of the Spectral Finite Element Method for modelling and analysing elastic wave propagation in diverse structural elements Presents results of experimental measurements employing advanced laser technologies validating the quality and correctness of the developed numerical models Accompanying website www.wiley.com/go/ostachowicz contains demonstration versions of commercial software developed by the authors for modelling and analyzing elastic wave propagation using the Spectral Finite Element Method Guided Waves in Structures for SHM provides a state of the art resource for researchers and graduate students in structural health monitoring signal processing and structural dynamics This book should also provide a

useful reference for practising engineers within structural health monitoring and non destructive testing

Elastic Wave Propagation with the Finite Element Method Francisco José Serón Arbeloa, F.J. Sanz, M. Kindelan, 1989

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 local boundary conditions is carefully worked out in several stages in the book Sponsored by IEEE Antennas and Propagation Society

A Finite-element Method with Edge Elements for Modelling Electromagnetic Wave Propagation Problems V. Hoefakker, 1993

Linear Wave Propagation Problems and the Finite Element Method J. C. W. Berkhoff, 1974

A Space-time Finite Element Method for the Second Order Wave Equation Donald A. French, Todd E. Peterson, 1991

Dispersive Elastic Wave Propagation by Finite Element Method Shui-Lin Weng, 1986

A Spectral and Finite Element Method for Wave Propagation in Dry and Saturated Poroelastic Media Geert Degrande, 1992

A Three-dimensional Finite Element Method to Elastic Wave Propagation in Strong Ground Motion Minh N. Tran, 2011

Abstract There are mainly four types of waves in elastic wave propagation during an earthquake P pressure or primary S shear or secondary Love and Rayleigh waves P and S waves are body waves traveling through the interior of the earth As body waves reach the earth surface they become surface waves Love and Rayleigh waves which are responsible for damage and destruction associated with earthquake In this thesis these four types of waves are studied and modeled The semi discrete numerical scheme used to conduct simulation for these waves is the finite element method which is continuous in space and the finite difference method which is discrete in time Finally a simple case of earthquake where a seismic wave propagates from the source through the soil medium along the fault path to the surface is investigated

The Finite Element Method in Electromagnetics Jian-Ming Jin, 2014-03-31 A new edition of the leading textbook on the finite element method incorporating major advancements and further applications in the field of electromagnetics The finite element method FEM is a powerful simulation technique used to solve boundary value problems in a variety of engineering circumstances It has been widely used for analysis of electromagnetic fields in antennas radar scattering RF and microwave engineering high speed high frequency circuits wireless communication electromagnetic compatibility photonics remote sensing biomedical engineering and space exploration The Finite Element Method in Electromagnetics Third Edition explains the method s processes and

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Finite Element Method for Eigenvalue Problems in Electromagnetics C. J. Reddy,1994 Hydraulic Analysis of Surface Irrigation Systems Using the Finite Element Method Walid Hani Shayya,1991

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