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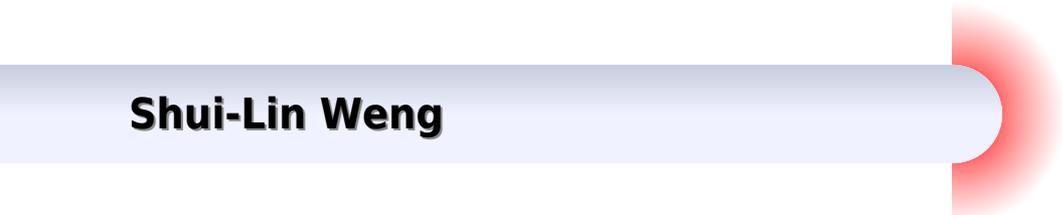
The Wave Finite Element Method



Springer

Wave Finite Element Method

Shui-Lin Weng



Wave Finite Element Method:

The Wave Finite Element Method Boris F Shorr,2004-01-22 This monograph presents in detail the novel wave approach to finite element modeling of transient processes in solids Strong discontinuities of stress deformation and velocity wave fronts as well as a finite magnitude of wave propagation speed over elements are considered These phenomena such as explosions shocks and seismic waves involve problems with a time scale near the wave propagation time Software packages for 1D and 2D problems yield significantly better results than classical FEA so some FORTRAN programs with the necessary comments are given in the appendix The book is written for researchers lecturers and advanced students interested in problems of numerical modeling of non stationary dynamic processes in deformable bodies and continua and also for engineers and researchers involved designing machines and structures in which shock vibro impact and other unsteady dynamics and waves processes play a significant role [Finite Elements for Wave Electromagnetics](#) IEEE Antennas and Propagation Society,1994 *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 *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

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

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 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 **Design and Modeling of Mechanical Systems** Mohamed Haddar, Lotfi Romdhane, Jamel Louati, Abdelmajid Ben Amara, 2013-03-12 The 5th International Congress on Design and Modeling of Mechanical Systems CMSM was held in Djerba Tunisia on March 25 27 2013 and followed four previous successful editions which brought together international experts in the fields of design and modeling of mechanical systems thus contributing to the exchange of information and skills and leading to a considerable progress in research among the participating teams The fifth edition of the congress CMSM 2013 organized by the Unit of Mechanics Modeling and Manufacturing U2MP of the National School of Engineers of Sfax Tunisia the Mechanical Engineering Laboratory MBL of the National School of Engineers of Monastir Tunisia and the Mechanics Laboratory of Sousse LMS of the National School of Engineers of Sousse Tunisia saw a significant increase of the international participation This edition brought together nearly 300 attendees who exposed their work on the following topics mechatronics and robotics dynamics of mechanical systems fluid structure interaction and vibroacoustics modeling and analysis of materials and structures design and manufacturing of mechanical systems This book is the proceedings of CMSM

2013 and contains a careful selection of high quality contributions which were exposed during various sessions of the congress The original articles presented here provide an overview of recent research advancements accomplished in the field mechanical engineering

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

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Hydraulic Analysis of Surface Irrigation Systems Using the Finite Element Method Walid Hani Shayya,1991

Natural Resources and Sustainable Development II Jian Guo Wu,Jie Yang,Nobukazu Nakagoshi,Xi Xi Li,He Xu,2012-05-14 Selected peer reviewed papers from the 2012 International Conference on Energy and Environmental Protection ICEEP 2012 June 23 24 2012 Hohhot China

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

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