

NUMERICAL COMPUTATION OF STRESS WAVES IN SOLIDS

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Numerical Computation Of Streb Waves In Solids

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CRREL Bibliography, 1999 **A Study of the Numerical Analysis of Wave Propagation in Solid Media** Yüksel Gültekin Uçkan, 1971 **Resonant Scattering and Generation of Waves** Lutz Angermann, Vasyl V. Yatsyk, 2018-07-26
This monograph deals with theoretical aspects and numerical simulations of the interaction of electromagnetic fields with nonlinear materials. It focuses in particular on media with nonlinear polarization properties. It addresses the direct problem of nonlinear Electrodynamics that is to understand the nonlinear behavior in the induced polarization and to analyze or even to control its impact on the propagation of electromagnetic fields in the matter. The book gives a comprehensive presentation of the results obtained by the authors during the last decade and put those findings in a broader unified context and extends them in several directions. It is divided into eight chapters and three appendices. Chapter 1 starts from the Maxwell's equations and develops a wave propagation theory in plate like media with nonlinear polarizability. In chapter 2 a theoretical framework in terms of weak solutions is given in order to prove the existence and uniqueness of a solution of the semilinear boundary value problem derived in the first chapter. Chapter 3 presents a different approach to the solvability theory of the reduced frequency domain model. Here the boundary value problem is reduced to finding solutions of a system of one dimensional nonlinear Hammerstein integral equations. Chapter 4 describes an approach to the spectral analysis of the linearized system of integral equations. Chapters 5 and 6 are devoted to the numerical approximation of the solutions of the corresponding mathematical models. Chapter 7 contains detailed descriptions, discussions and evaluations of the numerical experiments. Finally, chapter 8 gives a summary of the results and an outlook for future work. The Propagation of Waves in Solids and Some Uses of Orthonormal Sets of Functions in Numerical Analysis Graeme John Cooper, 1964 **Wave Propagation in Solids and Fluids** Julian L. Davis, 2012-12-06
The purpose of this volume is to present a clear and systematic account of the mathematical methods of wave phenomena in solids, gases and water that will be readily accessible to physicists and engineers. The emphasis is on developing the necessary mathematical techniques and on showing how these mathematical concepts can be effective in unifying the physics of wave propagation in a variety of physical settings: sound and shock waves in gases, water waves and stress waves in solids. Nonlinear effects and asymptotic phenomena will be discussed. Wave propagation in continuous media, solid, liquid or gas, has as its foundation the three basic conservation laws of physics: conservation of mass, momentum and energy, which will be described in various sections of the book in their proper physical setting. These conservation laws are expressed either in the Lagrangian or the Eulerian representation depending on

whether the boundaries are relatively fixed or moving In any case these laws of physics allow us to derive the field equations which are expressed as systems of partial differential equations For wave propagation phenomena these equations are said to be hyperbolic and in general nonlinear in the sense of being quasi linear We therefore attempt to determine the properties of a system of quasi linear hyperbolic partial differential equations which will allow us to calculate the displacement velocity fields etc

Acoustic and Elastic Wave Scattering Using Boundary Elements J. J. do Rêgo Silva, 1994-01-01 The study of wave propagation in solids and fluids is of importance in many branches of physics and engineering This book concentrates on the propagation of acoustic and harmonic waves in three dimensional regions The problems are formulated using integral equations and their numerical solutions are obtained through the boundary element method Numerical Approximation of Exact Controls for Waves Springer, 2013-02-01

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This monograph is devoted to problems of propagation and stability of linear and nonlinear waves in continuous media with complex structure It considers the different media such as solid with cavities preliminary deformed disperse medium solid with porosity filled by the electrically conductive and non conductive liquid magnetoelastic piezo semiconductors crystals with dislocations composites with inclusions an electrically conductive asymmetrical liquid a mixture of gas with a drop liquid The book also considers the propagation of a laser beam through a two level medium The presented results are based on methods of evolution and modulation equations that were developed by the authors The book is intended for scientific and technical researchers students and post graduate students specializing in mechanics of continuous media physical acoustics and physics of the solid state *Waves in Nonlinear Pre-Stressed Materials* M. Destrade, G.

Saccomandi, 2007-11-08 The papers in this book provide a unique state of the art multidisciplinary overview on the subject of waves in pre stressed materials through the interaction of several topics ranging from the mathematical modelling of incremental material response elastic and inelastic to the analysis of the governing differential equations and boundary value problems and to computational methods for the solution to these problems with particular reference to industrial geophysical and biomechanical applications A complete view on the title subject is proposed including The basic and fundamental theoretical issues mechanical modelling exact solutions asymptotic methods numerical treatment A unified introduction to

wave propagation small on large and large on large A look toward classical such as geophysics and the mechanics of rubber like solids and emergent such as biomechanics applications Wave Processes in Solids with Microstructure Vladimir I. Erofeyev, 2003 Wave Processes in Solids with Microstructure is useful for undergraduates graduate students researchers and practitioners in the mechanics of solids as well as in physical and technical acoustics **Mechanical Waves in Solids** J. Mandel, L. Brun, 2014-05-04

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