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Computational Wave Propagation



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Computational Wave Propagation Bjorn Engquist, Gregory A. Kriegsmann, 2012-12-06 This IMA Volume in Mathematics and its Applications COMPUTATIONAL WAVE PROPAGATION is based on the workshop with the same title and was an integral part of the 1994 1995 IMA program on Waves and Scattering We would like to thank Bjorn Engquist and Gregory A Kriegsmann for their hard work in organizing this meeting and in editing the proceedings We also take this opportunity to thank the National Science Foundation the Army Research Office and the Office of Naval Research whose financial support made this workshop possible

A vner Friedman Robert Gulliver v PREFACE Although the field of wave propagation and scattering has its classical roots in the last century it has enjoyed a rich and vibrant life over the past 50 odd years Scientists engineers and mathematicians have developed sophisticated asymptotic and numerical tools to solve problems of ever increasing complexity Their work has been spurred on by emerging and maturing technologies primarily concerned with the propagation and reception of information and the efficient transmission of energy The vitality of this scientific field is not waning Increased demands to precisely quantify measure and control the propagation and scattering of waves in increasingly complex settings pose challenging scientific and mathematical problems These push the envelope of analysis and computing just as their forerunners did 50 years ago These modern technological problems range from using underwater sound to monitor and predict global warming to periodically embedding phase sensitive amplifiers in optical fibers to insure long range digital communication

Effective Computational Methods for Wave Propagation Nikolaos A. Kampanis, Vassilios Dougalis, John A. Ekaterinaris, 2008-02-25 Due to the increase in computational power and new discoveries in propagation phenomena for linear and nonlinear waves the area of computational wave propagation has become more significant in recent years Exploring the latest developments in the field *Effective Computational Methods for Wave Propagation* presents several modern valuable

Topics in Computational Wave Propagation Mark Ainsworth, Penny Davies, Dugald B. Duncan, Paul A Martin, Bryan Rynne, 2003-08-27 These ten detailed and authoritative survey articles on numerical methods for direct and inverse wave propagation problems are written by leading experts Researchers and practitioners in computational wave propagation from postgraduate level onwards will find the breadth and depth of coverage of recent developments a valuable resource The articles describe a wide range of topics on the application and analysis of methods for time and frequency domain PDE and boundary integral formulations of wave propagation problems Electromagnetic seismic and acoustic equations are considered Recent developments in methods and analysis ranging from finite differences to hp adaptive finite elements including high accuracy and fast methods are described with extensive references

On the Forward and Inverse Computational Wave Propagation Problems Ali Vaziri Astaneh, 2016

Computational Wave Propagation in Isotropic and Anisotropic Media Using the Generalized Mass-spring Lattice Model Shiva Ayyadurai, 1990

Amplitude-Preserving Propagator and Its Applications in Computational Wave Propagation and Seismic

Imaging Mehran Eslaminia,2014 **Computational Acoustics: Wave propagation** Ding Lee,Robert L. Sternberg,Martin H. Schultz,1988 **Wave Phenomena** Lui Lam,Hedley C. Morris,2012-12-06 IJ 1 June of 1987 the Center for Applied Mathematics and Computer Science at San Jose State University received a bequest of over half a million dollars from the estate of Mrs Marie Woodward In the opening article of this collection of papers Jane Day the founder of the Center describes the background that led to this gift In recognition of the bequest it was decided that a series of Woodward Conferences be established The First Woodward Conference took place at San Jose State University on June 2 3 1988 The themes of the conference were the Theoretical Computational and Practical Aspects of Wave Phenomena and these same themes have been used to divide the contributions to this volume Part I is concerned with papers on theoretical aspects This section includes papers on pseudo differential operator techniques inverse problems and the mathematical foundations of wave propagation in random media Part II consists of papers that involve significant amounts of computation Included are papers on the Fast Hartley Transform computational algorithms for electromagnetic scattering problems and nonlinear wave interaction problems in fluid mechanics vi Part III contains papers with a genuine physics flavor This final section illustrates the widespread importance of wave phenomena in physics Among the phenomena considered are waves in the atmosphere viscous fingering in liquid crystals solitons and wave localization **Computational Methods for Wave Propagation Problems in Unbounded Domains** Vrushali Bokil,2003 Wave Propagation Using Parallel Computational Techniques Stephen Michael Sparagna,1990 Computational Nondestructive Evaluation Handbook Sourav Banerjee,Cara A.C. Leckey,2020-06-01 Introducing computational wave propagation methods developed over 40 years of research this comprehensive book offers a computational approach to NDE of isotropic anisotropic and functionally graded materials It discusses recent methods to enable enhanced computational efficiency for anisotropic materials It offers an overview of the need for and uses of NDE simulation The content provides a basic understanding of ultrasonic wave propagation through continuum mechanics and detailed discussions on the mathematical techniques of six computational methods to simulate NDE experiments In this book the pros and cons of each individual method are discussed and guidelines for selecting specific simulation methods for specific NDE scenarios are offered Covers ultrasonic CNDE fundamentals to provide understanding of NDE simulation methods Offers a catalog of effective CNDE methods to evaluate and compare Provides exercises on real life NDE problems with mathematical steps Discusses CNDE for common material types including isotropic anisotropic and functionally graded materials Presents readers with practical knowledge on ultrasonic CNDE methods This work is an invaluable resource for researchers advanced students and industry professionals across materials mechanical civil and aerospace engineering and anyone seeking to enhance their understanding of computational approaches for advanced material evaluation methods **Special Issue New Computational Methods for Wave Propagation** Dān Giv'ôlî,2004
Dispersive and Dissipative Properties of High Order Schemes for Computational Wave Propagation Hafiz Abdul

Wajid,2009 **On Computational Wave Propagation in Solids** ,2000 **Combinatorial Scientific Computing** Uwe Naumann,Olaf Schenk,2012-01-25 Combinatorial Scientific Computing explores the latest research on creating algorithms and software tools to solve key combinatorial problems on large scale high performance computing architectures It includes contributions from international researchers who are pioneers in designing software and applications for high performance computing systems **Approximate Methods for the Computation of Wave Propagation in Nonuniform Media** H. Y. Yee,1965 *Computational Seismology* Heiner Igel,2017 This book is an introductory text to a range of numerical methods used today to simulate time dependent processes in Earth science physics engineering and many other fields It looks under the hood of current simulation technology and provides guidelines on what to look out for when carrying out sophisticated simulation tasks **A Computational Model for the Simulation of Millimeter-Wave Propagation Through the Clear Atmosphere** Jerry D. Hopponen,1986 **Seismic Waves** Masaki Kanao,Genti Toyokuni,2019-11-20 The importance of seismic wave research lies not only in our ability to understand and predict earthquakes and tsunamis but it also reveals information on the Earth s composition and features in much the same way as it led to the discovery of Mohorovicic s discontinuity As our theoretical understanding of the physics behind seismic waves has grown physical and numerical modeling have greatly advanced and now augment applied seismology for better prediction and engineering practices This book demonstrates the latest techniques and advances in seismic wave analysis from a theoretical approach data acquisition and interpretation to analyses and numerical simulations as well as research applications The major topics in this book cover aspects on seismic wave propagation characteristics of their velocities and attenuation deformation process of the Earth s medium seismic source process and tectonic dynamics with relating observations as well as propagation modeling of seismic waves Direct and Inverse Problems in Wave Propagation and Applications Ivan Graham,Ulrich Langer,Jens Melenk,Mourad Sini,2013-10-14 This book is the third volume of three volume series recording the Radon Special Semester 2011 on Multiscale Simulation Analysis in Energy and the Environment taking place in Linz Austria October 3 7 2011 This book surveys recent developments in the analysis of wave propagation problems The topics covered include aspects of the forward problem and problems in inverse problems as well as applications in the earth sciences Wave propagation problems are ubiquitous in environmental applications such as seismic analysis acoustic and electromagnetic scattering The design of efficient numerical methods for the forward problem in which the scattered field is computed from known geometric configurations is very challenging due to the multiscale nature of the problems Even more challenging are inverse problems where material parameters and configurations have to be determined from measurements in conjunction with the forward problem This book contains review articles covering several state of the art numerical methods for both forward and inverse problems This collection of survey articles focusses on the efficient computation of wave propagation and scattering is a core problem in numerical mathematics which is currently of great research interest and is central to many applications in energy

and the environment Two generic applications which resonate strongly with the central aims of the Radon Special Semester 2011 are forward wave propagation in heterogeneous media and seismic inversion for subsurface imaging As an example of the first application modelling of absorption and scattering of radiation by clouds aerosol and precipitation is used as a tool for interpretation of e g solar infrared and radar measurements and as a component in larger weather climate prediction models in numerical weather forecasting As an example of the second application inverse problems in wave propagation in heterogeneous media arise in the problem of imaging the subsurface below land or marine deposits The book records the achievements of Workshop 3 Wave Propagation and Scattering Inverse Problems and Applications in Energy and the Environment It brings together key numerical mathematicians whose interest is in the analysis and computation of wave propagation and scattering problems and in inverse problems together with practitioners from engineering and industry whose interest is in the applications of these core problems

Reviewing **Computational Wave Propagation**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Computational Wave Propagation**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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