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Gregory A. Kriegsmann

Computational Wave Propagation



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Computational Wave Propagation The Ima Volumes In Mathematics And Its Applications

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Computational Wave Propagation The Ima Volumes In Mathematics And Its Applications:

Computational Wave Propagation Bjorn Engquist, Gregory A. Kriegsmann, 1996-11-14 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 devel oped 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 comput ing 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

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 devel oped 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 comput ing 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

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Propagation Björn Engquist, Gregory A Kriegsmann, 1996-11-14 Topics in Computational Wave Propagation Mark Ainsworth, Penny Davies, Dugald B. Duncan, Paul A Martin, Bryan Rynne, 2012-12-06 This volume consists of survey articles on current topics in computational wave propagation and inverse problems written by leading experts in their respective fields. The idea to compile such a volume arose in conjunction with the LMS Durham Symposium on Computational Methods for Wave Propagation in Direct Scattering held at the University of Durham from 15th to 25th July 2002 which we jointly organised. The meeting attended by 70 participants from the UK and overseas was structured around a number of short three lecture survey courses on a range of topics on computational wave propagation and inverse problems beginning at the level of a graduate student. We were delighted to secure the participation of distinguished international researchers to present these lectures. We felt that it would be valuable to record this material for the benefit of a wider audience and the idea was hatched that the individual lecturers should be invited to contribute a survey article. Fortunately many of the speakers not only agreed to undertake this arduous task but produced what we hope you will agree are the high quality contributions found in this volume. Finally it is a pleasure to thank the Engineering and Physical Sciences Research Council of Great Britain and the London Mathematical Society for providing the generous support that allowed the meeting to take place. Mark Ainsworth Glasgow 2003 Penny Davies Dugald Duncan Paul Martin Bryan Rynne

Contents New Results on Absorbing Layers and Radiation Boundary Conditions Thomas Hagstrom *IUTAM Symposium on Computational Methods for Unbounded Domains* Thomas L. Geers, 2013-03-09 During 27-31 July 1997 thirty seven researchers in acoustics, aeronautics, elastodynamics, electromagnetics, hydrodynamics and mathematics participated in a Symposium on Computational Methods for Unbounded Domains. The symposium was sponsored by the International Union of Theoretical and Applied Mechanics and was held at the University of Colorado in the United States of America. The symposium was opened by Dr Richard Byrny, Chancellor of the University's Boulder Campus who concluded his remarks by reading a letter from Professor Bruno A Boley, JUTAM Representative on the Scientific Committee. Thirty three papers were presented. About two thirds of these focused on the classical wave equation of acoustics; however three papers dealt with hydrodynamic surface waves, two with electromagnetic waves, three with elastodynamic waves and four with waves in aerodynamics. Approximately two thirds of the papers addressed steady state problems with the rest treating problems in the time domain. Extended abstracts of the papers appear in this volume arranged in alphabetical order according to the last name of the presenting author. A key unifying aspect of the symposium was the creation of four working groups that labored in parallel to formulate benchmark problems for evaluating computational boundaries. The working groups reviewed the papers presented each day searching for benchmark candidates. Then they considered other possibilities and organized the ensemble into logical categories. At the end of the symposium each group presented its benchmark candidates to the assembly of participants which subsequently made a preliminary consolidation of the benchmarks.

Vortex Dominated Flows: A Volume Celebrating Lu Ting's

80th Birthday Denis Blackmore, Egon Krause, Chee Tung, 2005-08-08 Honoring the contributions of one of the field's leading experts Lu Ting this indispensable volume contains important new results at the cutting edge of research A wide variety of significant new analytical and numerical results in critical areas are presented including point vortex dynamics superconductor vortices cavity flows vortex breakdown shock vortex interaction wake flows magneto hydrodynamics rotary wake flows and hypersonic vortex phenomena The book will be invaluable for those interested in the state of the art of vortex dominated flows both from a theoretical and applied perspective Professor Lu Ting and Joe Keller have worked together for over 40 years In their first joint work entitled Periodic vibrations of systems governed by nonlinear partial differential equations perturbation analysis and bifurcation theory were used to determine the frequencies and modes of vibration of various physical systems The novelty was the application to partial differential equations of methods which previously had been used almost exclusively on ordinary differential equations Professor Lu Ting is an expert in both fluid dynamics and the use of matched asymptotic expansions His physical insight into fluid flows has led the way to finding the appropriate mathematical simplifications used in the solutions to many difficult flow problems

Plane-Wave Theory of Time-Domain Fields Thorkild B. Hansen, Arthur D. Yaghjian, 1999-06-10 This invaluable book provides a comprehensive framework for the formulation and solution of numerous problems involving the radiation reception propagation and scattering of electromagnetic and acoustic waves Filled with original derivations and theorems it includes the first rigorous development of plane wave expansions for time domain electromagnetic and acoustic fields For the past 35 years near field measurement techniques have been confined to the frequency domain Now with the publication of this book probe corrected near field measurement techniques have been extended to ultra wide band short pulse transmitting and receiving antennas and transducers By combining unencumbered straightforward derivations with in depth expositions of prerequisite material the authors have created an invaluable resource for research scientists and engineers in electromagnetics and acoustics and a definitive reference on plane wave expansions and near field measurements Featured topics include An introduction to the basic electromagnetic and acoustic field equations A rigorous development of time domain and frequency domain plane wave representations The formulation of time domain frequency domain and static planar near field measurement techniques with and without probe correction Sampling theorems and computation schemes for time domain and frequency domain fields Analytic signal formulas that simplify the formulation and analysis of transient fields Wave phenomena such as electromagnetic missiles encountered only in the time domain Definitive force and power relations for electromagnetic and acoustic fields and sources Sponsored by IEEE Antennas and Propagation Society

Wave Propagation in Complex Media George Papanicolaou, 2012-12-06 This IMA Volume in Mathematics and its Applications WAVE PROPAGATION IN COMPLEX MEDIA is based on the proceedings of two workshops Wavelets multigrid and other fast algorithms multipole FFT and their use in wave propagation and Waves in random and other complex media Both workshops were integral parts of the 1994

1995 IMA program on Waves and Scattering We would like to thank Gregory Beylkin Robert Burridge Ingrid Daubechies Leonid Pastur and George Papanicolaou for their excellent work as organizers of these meetings We also take this opportunity to thank the National Science Foundation NSF the Army Research Office ARO and the Office of Naval Research ONR whose financial support made these workshops possible A vner Friedman Robert Gulliver v PREFACE During the last few years the numerical techniques for the solution of elliptic problems in potential theory for example have been drastically improved Several so called fast methods have been developed which reduce the required computing time many orders of magnitude over that of classical algorithms The new methods include multigrid fast Fourier transforms multi pole methods and wavelet techniques Wavelets have recently been developed into a very useful tool in signal processing the solution of integral equation etc Wavelet techniques should be quite useful in many wave propagation problems especially in inhomogeneous and nonlinear media where special features of the solution such as singularities might be tracked efficiently

Discrete Event Systems, Manufacturing Systems, and Communication Networks P.R. Kumar,P.P.

Varaiya,2012-12-06 This IMA Volume in Mathematics and its Applications DISCRETE EVENT SYSTEMS MANUFACTURING SYSTEMS AND COMMUNICATION NETWORKS is based on the proceedings of a workshop that was an integral part of the 1992-93 IMA program on Control Theory The study of discrete event dynamical systems DEDS has become rapidly popular among researchers in systems and control in communication networks in manufacturing and in distributed computing This development has created problems for researchers and potential consumers of the research The first problem is the veritable Babel of languages formalisms and approaches which makes it very difficult to determine the commonalities and distinctions among the competing schools of approaches The second related problem arises from the different traditions paradigms values and experience that scholars bring to their study of DEDS depending on whether they come from control communication computer science or mathematical logic As a result intellectual exchange among scholars becomes compromised by unexplicated assumptions The purpose of the Workshop was to promote exchange among scholars representing some of the major schools of thought in DEDS with the hope that 1 greater clarity will be achieved thereby and 2 cross fertilization will lead to more fruitful questions We thank P R Kumar and P P Varaiya for organizing the workshop and editing the proceedings We also take this opportunity to thank the National Science Foundation and the Army Research Office whose financial support made the workshop possible A vner Friedman Willard Miller Jr *Nonlinear Stochastic PDEs* Tadahisa Funaki,Wojbor Woyczynski,2012-12-06 This IMA Volume in Mathematics and its Applications NONLINEAR STOCHASTIC PDEs HYDRODYNAMIC LIMIT AND BURGERS TURBULENCE is based on the proceedings of the period of concentration on Stochastic Methods for Nonlinear PDEs which was an integral part of the 1993-94 IMA program on Emerging Applications of Probability We thank Tadahisa Funaki and Wojbor A Woyczynski for organizing this meeting and for editing the proceedings We also take this opportunity to thank the National Science Foundation and the Army Research

Office whose financial support made this workshop possible A vner Friedman Willard Miller Jr xiii PREFACE A workshop on Nonlinear Stochastic Partial Differential Equations was held during the week of March 21 at the Institute for Mathematics and Its Applications at the University of Minnesota It was part of the Special Year on Emerging Applications of Probability program put together by an organizing committee chaired by J Michael Steele The selection of topics reflected personal interests of the organizers with two areas of emphasis the hydrodynamic limit problems and Burgers turbulence and related models The talks and the papers appearing in this volume reflect a number of research directions that are currently pursued in these areas

Acta Numerica 1999: Volume 8 Arie Iserles, 1999-07-22 Numerical analysis is the subject of applied mathematics concerned mainly with using computers in evaluating or approximating mathematical models As such it is crucial to all applications of mathematics in science and engineering as well as being an important discipline on its own Acta Numerica surveys annually the most important developments in numerical analysis and scientific computing The subjects and authors of the substantive survey articles are chosen by a distinguished international editorial board so as to report the most important developments in the subject in a manner accessible to the wider community of professionals with an interest in scientific computing

Natural Locomotion in Fluids and on Surfaces Stephen Childress, Anette Hosoi, William W. Schultz, Jane Wang, 2012-08-14 This volume developed from a Workshop on Natural Locomotion in Fluids and on Surfaces Swimming Flying and Sliding which was held at the Institute for Mathematics and its Applications IMA at the University of Minnesota from June 1 5 2010 The subject matter ranged widely from observational data to theoretical mechanics and reflected the broad scope of the workshop In both the prepared presentations and in the informal discussions the workshop engaged exchanges across disciplines and invited a lively interaction between modelers and observers The articles in this volume were invited and fully refereed They provide a representative if necessarily incomplete account of the field of natural locomotion during a period of rapid growth and expansion The papers presented at the workshop and the contributions to the present volume can be roughly divided into those pertaining to swimming on the scale of marine organisms swimming of microorganisms at low Reynolds numbers animal flight and sliding and other related examples of locomotion

Random Discrete Structures David Aldous, Robin Pemantle, 2012-12-06 The articles in this volume present the state of the art in a variety of areas of discrete probability including random walks on finite and infinite graphs random trees renewal sequences Stein's method for normal approximation and Kohonen type self organizing maps This volume also focuses on discrete probability and its connections with the theory of algorithms Classical topics in discrete mathematics are represented as are expositions that condense and make readable some recent work on Markov chains potential theory and the second moment method This volume is suitable for mathematicians and students

Boundary Element Methods Stefan A. Sauter, Christoph Schwab, 2010-11-01 This work presents a thorough treatment of boundary element methods BEM for solving strongly elliptic boundary integral equations obtained from boundary reduction of elliptic boundary value problems in

mathbb R^3 The book is self contained the prerequisites on elliptic partial differential and integral equations being presented in Chapters 2 and 3 The main focus is on the development analysis and implementation of Galerkin boundary element methods which is one of the most flexible and robust numerical discretization methods for integral equations For the efficient realization of the Galerkin BEM it is essential to replace time consuming steps in the numerical solution process with fast algorithms In Chapters 5-9 these methods are developed analyzed and formulated in an algorithmic way **Discrete**

Probability and Algorithms David Aldous, Persi Diaconis, Joel Spencer, J. Michael Steele, 2012-12-06 Discrete probability theory and the theory of algorithms have become close partners over the last ten years though the roots of this partnership go back much longer The papers in this volume address the latest developments in this active field They are from the IMA Workshops Probability and Algorithms and The Finite Markov Chain Renaissance They represent the current thinking of many of the world's leading experts in the field Researchers and graduate students in probability computer science combinatorics and optimization theory will all be interested in this collection of articles The techniques developed and surveyed in this volume are still undergoing rapid development and many of the articles of the collection offer an expositionally pleasant entree into a research area of growing importance *Modeling, Mesh Generation, and Adaptive Numerical Methods for Partial Differential Equations* Ivo Babuska, Joseph E. Flaherty, William D. Henshaw, John E. Hopcroft, Joseph E. Oliger, Tayfun Tezduyar, 2012-12-06 With considerations such as complex dimensional geometries and nonlinearity the computational solution of partial differential systems has become so involved that it is important to automate decisions that have been normally left to the individual This book covers such decisions 1 mesh generation with links to the software generating the domain geometry 2 solution accuracy and reliability with mesh selection linked to solution generation This book is suited for mathematicians computer scientists and engineers and is intended to encourage interdisciplinary interaction between the diverse groups Adaptive Control, Filtering, and Signal Processing K.J.

Aström, G.C. Goodwin, P.R. Kumar, 2012-12-06 The area of adaptive systems which encompasses recursive identification adaptive control filtering and signal processing has been one of the most active areas of the past decade Since adaptive controllers are fundamentally nonlinear controllers which are applied to nominally linear possibly stochastic and time varying systems their theoretical analysis is usually very difficult Nevertheless over the past decade much fundamental progress has been made on some key questions concerning their stability convergence performance and robustness Moreover adaptive controllers have been successfully employed in numerous practical applications and have even entered the marketplace

Inverse Problems in Wave Propagation Guy Chavent, George Papanicolaou, Paul Sacks, William Symes, 2012-12-06 Inverse problems in wave propagation concern extraction of information about distant structural features from the measurements of scattered waves Tasks of this nature arise in geophysics ocean acoustics civil and environmental engineering ultrasonic nondestructive testing biomedical ultrasonics radar astrophysics and other areas of science and technology The papers in

this volume represent most of these scientific and technical topics together with fundamental mathematical investigations of the relation between waves and scatterers *Parallel Computational Fluid Dynamics* Rupak Biswas,2010 **High Performance Computing and Communications** Jack Dongarra,Laurence T. Yang,Omer F. Rana,Beniamino Di Martino,2005-09-12 This book constitutes the refereed proceedings of the First International Conference on High Performance Computing and Communications HPCC 2005 held in Sorrento Italy in September 2005 The 76 revised full papers and 44 revised short papers presented were carefully reviewed and selected from 273 submissions The papers are organized in topical sections on network protocols routing and algorithms languages and compilers for HPC parallel and distributed system architectures embedded systems parallel and distributed algorithms wireless and mobile computing Web services and Internet computing peer to peer computing grid and cluster computing reliability fault tolerance and security performance evaluation and measurement tools and environments for software development distributed systems and applications high performance scientific and engineering computing database applications and data mining HPSRF pervasive computing and communications and LMS

Computational Wave Propagation The Ima Volumes In Mathematics And Its Applications: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Computational Wave Propagation The Ima Volumes In Mathematics And Its Applications : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and thrilling novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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