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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 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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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.

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.

Vortex Dominated Flows Lu Ting, Denis L. Blackmore, Egon Krause, Chee Tung, 2005 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 "On periodic vibrations of systems governed by nonlinear partial differential equations," OCO 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.

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

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

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.

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