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papers from authors who have made notable contributions to the development of that topic The articles are intended to summarize the field at a level accessible to graduate students and researchers Acta Numerica is a valuable tool not only for researchers and professionals wishing to develop their understanding of the subject and follow developments but also as an advanced teaching aid at colleges and universities This volume was originally published in 1992 **Investigation of Finite** Element-ABC Methods for Electromagnetic Field Simulation Arindam Chatterjee, 1994 Recent Progress in Computational and Applied PDES Tony F. Chan, Yunging Huang, Tao Tang, Jinchao Xu, Lung-an Ying, 2012-12-06 The book discusses some key scientific and technological developments in computational and applied partial differential equations It covers many areas of scientific computing including multigrid methods image processing finite element analysis and adaptive computations It also covers software technology algorithms and applications Most papers are of research level and are contributed by some well known mathematicians and computer scientists. The book will be useful to engineers computational scientists and graduate students **Computation and Applied Mathematics** ,1985 **Finite Volume Methods for Hyperbolic Problems** Randall J. LeVeque, 2002-08-26 Publisher Description **Mathematics and Computation in** Imaging Science and Information Processing Say Song Goh, Zuowei Shen, 2007 The explosion of data arising from rapid advances in communication sensing and computational power has concentrated research effort on more advanced techniques for the representation processing analysis and interpretation of data sets This compiled volume contains survey articles by tutorial speakers all specialists in their respective areas They collectively provide graduate students and researchers new to the field a unique and valuable introduction to a range of important topics at the frontiers of current research BOOK JACKET

Extraction of Quantifiable Information from Complex Systems Stephan Dahlke, Wolfgang Dahmen, Michael Griebel, Wolfgang Hackbusch, Klaus Ritter, Reinhold Schneider, Christoph Schwab, Harry Yserentant, 2014-11-13 In April 2007 the Deutsche Forschungsgemeinschaft DFG approved the Priority Program 1324 Mathematical Methods for Extracting Quantifiable Information from Complex Systems This volume presents a comprehensive overview of the most important results obtained over the course of the program Mathematical models of complex systems provide the foundation for further technological developments in science engineering and computational finance Motivated by the trend toward steadily increasing computer power ever more realistic models have been developed in recent years These models have also become increasingly complex and their numerical treatment poses serious challenges Recent developments in mathematics suggest that in the long run much more powerful numerical solution strategies could be derived if the interconnections between the different fields of research were systematically exploited at a conceptual level Accordingly a deeper understanding of the mathematical foundations as well as the development of new and efficient numerical algorithms were among the main goals of this Priority Program The treatment of high dimensional systems is clearly one of the most challenging tasks in applied mathematics today Since the problem of high dimensionality appears in many fields of application the above mentioned

synergy and cross fertilization effects were expected to make a great impact To be truly successful the following issues had to be kept in mind theoretical research and practical applications had to be developed hand in hand moreover it has proven necessary to combine different fields of mathematics such as numerical analysis and computational stochastics To keep the whole program sufficiently focused we concentrated on specific but related fields of application that share common characteristics and as such they allowed us to use closely related approaches **Investigation of Finite Element-ABC** Methods for Electromagnetic Field Simulation Arindam Chatterjee (PhD.),1994 Revue Roumaine de Mathématiques Pures Et Appliqueés ,1985 Minimax and Applications Ding-Zhu Du, Panos M. Pardalos, 2013-12-01 Techniques and principles of minimax theory play a key role in many areas of research including game theory optimization and computational complexity In general a minimax problem can be formulated as min max f x y 1 EX lEY where f x y is a function defined on the product of X and Y spaces There are two basic issues regarding minimax problems The first issue concerns the establishment of sufficient and necessary conditions for equality minmaxf x y maxminf x y 2 EX lEY lEY EX The classical minimax theorem of von Neumann is a result of this type Duality theory in linear and convex quadratic programming interprets minimax theory in a different way The second issue concerns the establishment of sufficient and necessary conditions for values of the variables x and y that achieve the global minimax function value f x y minmaxf x y 3 EX lEY There are two developments in minimax theory that we would like to mention The Mathematics of Marine Modelling Henk Schuttelaars, Arnold Heemink, Eric Deleersnijder, 2022-11-30 Over the past few decades numerical simulation has become instrumental in understanding the dynamics of seas coastal regions and estuaries The decision makers rely more and more frequently on model results for the management of these regions Some modellers are insufficiently aware of the theoretical underpinning of the simulation tools they are using On the other hand a number of applied mathematicians tend to view marine sciences as a domain in which they would like to use the tools they have a good command of Bridging the gap between model users and applied mathematicians is the main objective of the present book In this respect a vast number of issues in which mathematics plays a crucial role will be addressed The Boundary Element Method, Volume 1 L. C. Wrobel, 2002-04-22 The boundary element method BEM is a modern numerical techniquewhich has enjoyed increasing popularity over the last two decades and is now an established alternative to traditional computationalmethods of engineering analysis The main advantage of the BEM isits unique ability to provide a complete solution in terms of boundary values only with substantial savings in modelling effort This two volume book set is designed to provide the readers with acomprehensive and up to date account of the boundary element method and its application to solving engineering problems Each volume is a self contained book including a substantial amount of materialnot previously covered by other text books on the subject Volume 1 covers applications to heat transfer acoustics electrochemistry and fluid mechanics problems while volume 2 concentrates on solidsand structures describing applications to elasticity plasticity elastodynamics fracture

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