Feasible Computations and Provable Complexity Properties

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Analysis of Hydrodynamic Models Peter Constantin,2017-04-25 Analysis of Hydrodynamic Models presents a concise treatment of a number of partial differential equations of hydrodynamic origin including the incompressible Euler equations SQG Boussinesq incompressible porous medium and Oldroyd B The author's approach is based on properties of the particle trajectory maps and on analysis of the back and forth passage between the Lagrangian and the Eulerian descriptions This concise unified approach brings readers up to date on current open problems This book is intended for graduate students and junior researchers in mathematics This book is intended for graduate students and junior researchers in mathematics

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to be impossible to condense without losing crucial details This monograph contains 10 lectures presented by Dr Daubechies as the principal speaker at the 1990 CBMS NSF Conference on Wavelets and Applications The author has worked on several aspects of the wavelet transform and has developed a collection of wavelets that are remarkably efficient Models in Population Biology Paul Waltman, 1983-01-01 This book uses fundamental ideas in dynamical systems to answer questions of a biologic nature in particular questions about the behavior of populations given a relatively few hypotheses about the nature of their growth and interaction The principal subject treated is that of coexistence under certain parameter ranges while asymptotic methods are used to show competitive exclusion in other parameter ranges Finally some problems in genetics are posed and analyzed as problems in nonlinear ordinary differential equations The Linear Sampling Method in Inverse Electromagnetic Scattering Fioralba Cakoni, David Colton, Peter Monk, 2011-01-13 A complete description of the linear sampling method for electromagnetic waves important for those researching inverse electromagnetic scattering A Primer on Radial Basis Functions with Applications to the Geosciences Bengt Fornberg, Natasha Flyer, 2015-09-30 Adapted from a series of lectures given by the authors this monograph focuses on radial basis functions RBFs a powerful numerical methodology for solving PDEs to high accuracy in any number of dimensions This method applies to problems across a wide range of PDEs arising in fluid mechanics wave motions astro and geosciences mathematical biology and other areas and has lately been shown to compete successfully against the very best previous approaches on some large benchmark problems Using examples and heuristic explanations to create a practical and intuitive perspective the authors address how when and why RBF based methods work The authors trace the algorithmic evolution of RBFs starting with brief introductions to finite difference FD and pseudospectral PS methods and following a logical progression to global RBFs and then to RBF generated FD RBF FD methods The RBF FD method conceived in 2000 has proven to be a leading candidate for numerical simulations in an increasingly wide range of applications including seismic exploration for oil and gas weather and climate modeling and electromagnetics among others This is the first survey in book format of the RBF FD methodology and is suitable as the text for a one semester first year graduate class **Fundamentals of Radar Imaging** Margaret Cheney, Brett Borden, 2009-01-01 Mathematical Analysis of Viscoelastic Flows Michael Renardy, 2000-01-01 This monograph is based on a series of lectures presented at the 1999 NSF CBMS Regional Research Conference on Mathematical Analysis of Viscoelastic Flows It begins with an introduction to phenomena observed in viscoelastic flows the formulation of mathematical equations to model such flows and the behavior of various models in simple flows It also discusses the asymptotics of the high Weissenberg limit the analysis of flow instabilities the equations of viscoelastic flows jets and filaments and their breakup as well as several other topics Random Number Generation and Quasi-Monte Carlo Methods Harald Niederreiter, 1992-01-01 Tremendous progress has taken place in the related areas of uniform pseudorandom number generation and guasi Monte Carlo methods in the last five years This volume contains recent

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popular Cahn Hilliard equation and some of its variants The focus is on mathematical analysis of Cahn Hilliard models with an emphasis on thermodynamically relevant logarithmic nonlinear terms for which several questions are still open Initially proposed in view of applications to materials science the Cahn Hilliard equation is now applied in many other areas including image processing biology ecology astronomy and chemistry In particular the author addresses applications to image inpainting and tumor growth Many chapters include open problems and directions for future research The Cahn Hilliard Equation Recent Advances and Applications is intended for graduate students and researchers in applied mathematics especially those interested in phase separation models and their generalizations and applications to other fields Materials scientists also will find this text of interest

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