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Topics in Finite Elasticity Morton E. Gurtin, 1981-01-01 Finite elasticity is a theory of elastic materials that are capable of undergoing large deformations This theory is inherently nonlinear and is mathematically quite complex This monograph presents a derivation of the basic equations of the theory a discussion of the general boundary value problems and a treatment of several interesting and important special topics such as simple shear uniqueness the tensile deformations of a cube and antiplane shear The monograph is intended for engineers physicists and mathematicians

Ten Lectures on Wavelets Ingrid Daubechies, 1992-01-01 Wavelets are a mathematical development that may revolutionize the world of information storage and retrieval according to many experts They are a fairly simple mathematical tool now being applied to the compression of data such as fingerprints weather satellite photographs and

medical x rays that were previously thought 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

Competition 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 theory

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

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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

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Finite Element Exterior Calculus Douglas N. Arnold, 2018-12-12 Computational methods to approximate the solution of differential equations play a crucial role in science engineering mathematics and technology The key processes that govern the physical world wave propagation thermodynamics fluid flow solid deformation electricity and magnetism quantum mechanics general relativity and many more are described by differential equations We depend on numerical methods for the ability to simulate explore predict and control systems involving these processes The finite element exterior calculus or FEEC is a powerful new theoretical approach to the design and understanding of numerical methods to solve partial differential equations PDEs The methods derived with FEEC preserve crucial geometric and topological structures underlying the equations and are among the most successful examples of structure preserving methods in numerical PDEs This volume aims to help numerical analysts master the fundamentals of FEEC including the geometrical and functional analysis preliminaries quickly and in one place It is also accessible to mathematicians and students of mathematics from areas other than numerical analysis who are interested in understanding how techniques from geometry and topology play a role in numerical PDEs

The Cahn-Hilliard Equation: Recent Advances and

Applications Alain Miranville, 2019-09-09 This is the first book to present a detailed discussion of both classical and recent results on the 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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