Scientific Computation on Mathematical Problems and Conjectures

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Scientific Computation On Mathematical Problems And Conjectures

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Scientific Computation On Mathematical Problems And Conjectures:

Scientific Computation on Mathematical Problems and Conjectures Richard S. Varga,1990-01-01 This book studies the use of scientific computation as a tool in attacking a number of mathematical problems and conjectures In this case scientific computation refers primarily to computations that are carried out with a large number of significant digits for calculations associated with a variety of numerical techniques such as the second Remez algorithm in polynomial and rational approximation theory Richardson extrapolation of sequences of numbers the accurate finding of zeros of polynomials of large degree and the numerical approximation of integrals by quadrature techniques The goal of this book is not to delve into the specialized field dealing with the creation of robust and reliable software needed to implement these high precision calculations but rather to emphasize the enormous power that existing software brings to the mathematician s arsenal of weapons for attacking mathematical problems and conjectures *Projects in Scientific Computation* Richard E. Crandall,2000-06-22 This interdisciplinary book provides a compendium of projects plus numerous example programs for readers to study and explore Designed for advanced undergraduates or graduates of science mathematics and engineering who will deal with scientific computation in their future studies and research it also contains new and useful reference materials for researchers The problem sets range from the tutorial to exploratory and at times to the impossible The projects were collected from research results and computational dilemmas during the authors tenure as Chief Scientist at NeXT Computer and from his lectures at Reed College The content assumes familiarity with such college topics as calculus differential equations and at least elementary programming Each project focuses on computation theory graphics or a combination of these and is designed with an estimated level of difficulty The support code for each takes the form of either C or Mathematica and is included in the appendix and on the bundled diskette The algorithms are clearly laid out within the projects such that the book may be used with other symbolic numerical and algebraic manipulation products 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 **Multivariate Splines** Charles K. Chui,1988-01-01 The subject of multivariate splines has become a rapidly growing field of mathematical

research The author presents the subject from an elementary point of view that parallels the theory and development of univariate spline analysis To compensate for the missing proofs and details an extensive bibliography has been included There is a presentation of open problems with an emphasis on the theory and applications to computer aided design data analysis and surface fitting Applied mathematicians and engineers working in the areas of curve fitting finite element methods computer aided geometric design signal processing mathematical modelling computer aided design computer aided manufacturing and circuits and systems will find this monograph essential to their research **Applied Asymptotic Analysis** Peter David Miller,2006 This book is a survey of asymptotic methods set in the current applied research context of wave propagation It stresses rigorous analysis in addition to formal manipulations Asymptotic expansions developed in the text are justified rigorously and students are shown how to obtain solid error estimates for asymptotic formulae The book relates examples and exercises to subjects of current research interest such as the problem of locating the zeros of Taylor polynomials of entirenonvanishing functions and the problem of counting integer lattice points in subsets of the plane with various geometrical properties of the boundary The book is intended for a beginning graduate course on asymptotic analysis in applied mathematics and is aimed at students of pure and appliedmathematics as well as science and engineering The basic prerequisite is a background in differential equations linear algebra advanced calculus and complex variables at the level of introductory undergraduate courses on these subjects The book is ideally suited to the needs of a graduate student who on the one hand wants to learn basic applied mathematics and on the other wants to understand what is needed to make the various arguments rigorous Down here in the Village this is knownas the Courant point of view Percy Deift Courant Institute New York Peter D Miller is an associate professor of mathematics at the University of Michigan at Ann Arbor He earned a Ph D in Applied Mathematics from the University of Arizona and has held positions at the Australian NationalUniversity Canberra and Monash University Melbourne His current research interests lie in singular limits for integrable systems *Solitons in Two-Dimensional Shallow Water* Yuji Kodama,2018-12-10 Web like waves often observed on the surface of shallow water are examples of nonlinear waves They are generated by nonlinear interactions among several obliquely propagating solitary waves also known as solitons In this book modern mathematical tools algebraic geometry algebraic combinatorics and representation theory among others are used to analyze these two dimensional wave patterns The author s primary goal is to explain some details of the classification problem of the soliton solutions of the KP equation or KP solitons and their applications to shallow water waves This book is intended for researchers and graduate students **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

  Fourier Analysis William O. Bray,P. Milojevic,C.V. Stanojevic,2020-12-17 Providing complete expository and research papers on the geometric and analytic aspects of Fourier analysis this work discusses new approaches to classical problems in the theory of trigonometric series singular integrals pseudo differential operators Fourier analysis on various groups numerical aspects of Fourier analysis and their applications wavelets and more   *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   *Inverse Scattering Theory and Transmission Eigenvalues* Fioralba Cakoni,David Colton,Houssem Haddar,2022-12-07 Inverse scattering theory is a major theme in applied mathematics with applications to such diverse areas as medical imaging geophysical exploration and nondestructive testing The inverse scattering problem is both nonlinear and ill posed thus presenting challenges in the development of efficient inversion algorithms A further complication is that anisotropic materials cannot be uniquely determined from given scattering data In the first edition of Inverse Scattering Theory and Transmission Eigenvalues the authors discussed methods for determining the support of inhomogeneous media from measured far field data and the role of transmission eigenvalue problems in the mathematical development of these methods In this second edition three new chapters describe recent developments in

inverse scattering theory In particular the authors explore the use of modified background media in the nondestructive testing of materials and methods for determining the modified transmission eigenvalues that arise in such applications from measured far field data They also examine nonscattering wave numbers a subset of transmission eigenvalues using techniques taken from the theory of free boundary value problems for elliptic partial differential equations and discuss the dualism of scattering poles and transmission eigenvalues that has led to new methods for the numerical computation of scattering poles This book will be of interest to research mathematicians and engineers and physicists working on problems in target identification It will also be useful to advanced graduate students in many areas of applied mathematics

  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 **Phylogeny** Mike Steel,2016-09-29 Phylogenetics is a topical and growing area of research Phylogenies phylogenetic trees and networks allow biologists to study and graph evolutionary relationships between different species These are also used to investigate other evolutionary processes for example how languages developed or how different strains of a virus such as HIV or influenza are related to each other This self contained book addresses the underlying mathematical theory behind the reconstruction and analysis of phylogenies The theory is grounded in classical concepts from discrete mathematics and probability theory as well as techniques from other branches of mathematics algebra topology differential equations The biological relevance of the results is highlighted throughout The author supplies proofs of key classical theorems and includes results not covered in existing books emphasizes relevant mathematical results derived over the past 20 years and provides numerous exercises examples and figures **Bayesian Statistics, A Review** D. V. Lindley,1972-01-31 A study of those statistical ideas that use a probability distribution over parameter space The first part describes the axiomatic basis in the concept of coherence and the implications of this for sampling theory statistics The second part discusses the use of Bayesian ideas in many branches of statistics **Open Problems in Mathematics and Computational Science** Çetin Kaya Koç,2015-03-25 This book presents interesting important unsolved problems in the mathematical and computational sciences The contributing authors are leading researchers in their fields and they explain outstanding challenges in their domains first by offering basic definitions explaining the context and summarizing related algorithms theorems and proofs and then by suggesting creative solutions The authors feel a strong motivation to excite deep research and discussion in the mathematical and computational sciences community and the book will be of value to postgraduate students and researchers in the areas of theoretical computer science discrete mathematics engineering and

cryptology   **Lectures on the Logic of Computer Programming** Zohar Manna,1980-01-01 This monograph deals with aspects of the computer programming process that involve techniques derived from mathematical logic The author focuses on proving that a given program produces the intended result whenever it halts that a given program will eventually halt that a given program is partially correct and terminates and that a system of rewriting rules always halts Also the author describes the intermediate behavior of a given program and discusses constructing a program to meet a given specification   **Stochastic Processes in the Neurosciences** Henry C. Tuckwell,1989-01-01 This monograph is centered on quantitative analysis of nerve cell behavior The work is foundational with many higher order problems still remaining especially in connection with neural networks Thoroughly addressed topics include stochastic problems in neurobiology and the treatment of the theory of related Markov processes   Some Limit Theorems in Statistics R. R. Bahadur,1971-01-01 A discussion of some topics in the theory of large deviations such as moment generating functions and Chernoff s theorem and of aspects of estimation and testing in large samples such as exact slopes of test statistics   **Foundations of Stochastic Differential Equations in Infinite Dimensional Spaces** Kiyosi Ito,1984-01-01 A systematic self contained treatment of the theory of stochastic differential equations in infinite dimensional spaces Included is a discussion of Schwartz spaces of distributions in relation to probability theory and infinite dimensional stochastic analysis as well as the random variables and stochastic processes that take values in infinite dimensional spaces   *Polynomials and Polynomial Inequalities* Peter Borwein,Tamas Erdelyi,2012-12-06 Polynomials pervade mathematics virtually every branch of mathematics from algebraic number theory and algebraic geometry to applied analysis and computer science has a corpus of theory arising from polynomials The material explored in this book primarily concerns polynomials as they arise in analysis it focuses on polynomials and rational functions of a single variable The book is self contained and assumes at most a senior undergraduate familiarity with real and complex analysis After an introduction to the geometry of polynomials and a discussion of refinements of the Fundamental Theorem of Algebra the book turns to a consideration of various special polynomials Chebyshev and Descartes systems are then introduced and M ntz systems and rational systems are examined in detail Subsequent chapters discuss denseness questions and the inequalities satisfied by polynomials and rational functions Appendices on algorithms and computational concerns on the interpolation theorem and on orthogonality and irrationality conclude the book   **Mathematical Theories of Populations** Frank Hoppensteadt,1975-12-01 A basic model in population age structure is studied and then applied and extended to several population phenomena

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