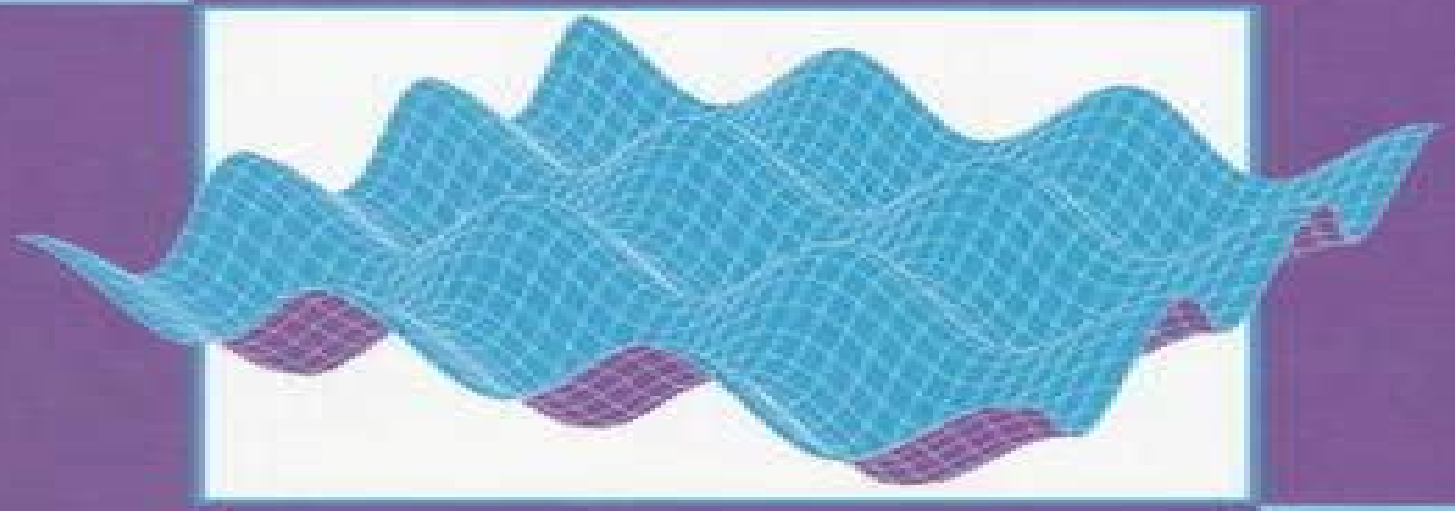
Mathematical Modeling in Optical Science



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IN APPLIED MATHEMATICS

Mathematical Modeling In Optical Science Frontiers In Applied Mathematics

Jin Cheng,Benny Yin-chung Hon,June-yub Lee,Masahiro Yamamoto

Mathematical Modeling In Optical Science Frontiers In Applied Mathematics:

Mathematical Modeling in Optical Science Gang Bao,Lawrence Cowsar,Wen Masters,2001-01-01 This volume addresses recent developments in mathematical modeling in three areas of optical science diffractive optics photonic band gap structures and waveguides Particular emphasis is on the formulation of mathematical models and the design and analysis of new computational approaches The book contains cutting edge discourses on emerging technology in optics that provides significant challenges and opportunities for applied mathematicians researchers and engineers Each of the three topics is presented through a series of survey papers to provide a broad overview focusing on the mathematical models Chapters present model problems physical principles mathematical and computational approaches and engineering applications corresponding to each of the three areas Although some of the subject matter is classical the topics presented are new and represent the latest developments in their respective fields *Mathematical Modeling in Optical Science* Gang Bao,Lawrence Cowsar,Wen Masters,2001-01-01 This volume addresses recent developments in mathematical modeling in three areas of optical science diffractive optics photonic band gap structures and waveguides Particular emphasis is on the formulation of mathematical models and the design and analysis of new computational approaches The book contains cutting edge discourses on emerging technology in optics that provides significant challenges and opportunities for applied mathematicians researchers and engineers **Lectures on the Theory of Water Waves** Thomas J. Bridges,Mark D. Groves,David P. Nicholls,2016-02-04 In the summer of 2014 leading experts in the theory of water waves gathered at the Newton Institute for Mathematical Sciences in Cambridge for four weeks of research interaction A cross section of those experts was invited to give introductory level talks on active topics This book is a compilation of those talks and illustrates the diversity intensity and progress of current research in this area The key themes that emerge are numerical methods for analysis stability and simulation of water waves transform methods rigorous analysis of model equations three dimensionality of water waves variational principles shallow water hydrodynamics the role of deterministic and random bottom topography and modulation equations This book is an ideal introduction for PhD students and researchers looking for a research project It may also be used as a supplementary text for advanced courses in mathematics or fluid dynamics *Progress in Computational Physics (PiCP): Volume 1* Matthias Ehrhardt,2010 Progress in Computational Physics is a new e book series devoted to recent research trends in computational physics It contains chapters contributed by outstanding experts of modeling of physical problems The series focuses on interdisciplinary computat **Scientific Computing in Electrical Engineering SCEE 2010** Bastiaan Michielsen,Jean-René Poirier,2012-01-06 Selected from papers presented at the 8th Scientific Computation in Electrical Engineering conference in Toulouse in 2010 the contributions to this volume cover every angle of numerically modelling electronic and electrical systems including computational electromagnetics circuit theory and simulation and device modelling On computational electromagnetics the chapters examine cutting edge material ranging

from low frequency electrical machine modelling problems to issues in high frequency scattering Regarding circuit theory and simulation the book details the most advanced techniques for modelling networks with many thousands of components Modelling devices at microscopic levels is covered by a number of fundamental mathematical physics papers while numerous papers on model order reduction help engineers and systems designers to bring their modelling of industrial scale systems within the reach of present day computational power Complementing these more specific papers the volume also contains a selection of mathematical methods which can be used in any application domain **Critical Point Theory** Martin Schechter,2020-05-30 This monograph collects cutting edge results and techniques for solving nonlinear partial differential equations using critical points Including many of the author s own contributions a range of proofs are conveniently collected here Because the material is approached with rigor this book will serve as an invaluable resource for exploring recent developments in this active area of research as well as the numerous ways in which critical point theory can be applied Different methods for finding critical points are presented in the first six chapters The specific situations in which these methods are applicable is explained in detail Focus then shifts toward the book s main subject applications to problems in mathematics and physics These include topics such as Schr dinger equations Hamiltonian systems elliptic systems nonlinear wave equations nonlinear optics semilinear PDEs boundary value problems and equations with multiple solutions Readers will find this collection of applications convenient and thorough with detailed proofs appearing throughout Critical Point Theory will be ideal for graduate students and researchers interested in solving differential equations and for those studying variational methods An understanding of fundamental mathematical analysis is assumed In particular the basic properties of Hilbert and Banach spaces are used Recent Development In Theories And Numerics, Proceedings Of The International Conference On Inverse Problems Jin Cheng,Benny Yin-chung Hon,June-yub Lee,Masahiro Yamamoto,2003-04-08 The first International Conference on Inverse Problems was held at the City University of Hong Kong in January 2002 It addressed the theoretical mathematics applied engineering and development aspects of inverse problems It was intended to nurture Asian American European collaborations in this evolving interdisciplinary area The scope of the proceedings is wide reflecting the current flourishing theoretical and numerical researches on inverse problems The proceedings have been selected for coverage in Index to Scientific Technical Proceedings ISTP CDROM version ISI Proceedings Mathematical and Computational Techniques for Multilevel Adaptive Methods Ulrich Ruede,1993-01-01 This monograph presents a unified approach to adaptive methods addressing their mathematical theory efficient algorithms and flexible data structures

Optimal Control of Complex Structures K.-H. Hoffmann,Irena Lasiecka,G. Leugering,J. Sprekels,Fredi Tröltzsch,2012-12-06 Interest in the area of control of systems defined by partial differential Equations has increased strongly in recent years A major reason has been the requirement of these systems for sensible continuum mechanical modelling and optimization or control techniques which account for typical physical phenomena Particular examples of

problems on which substantial progress has been made are the control and stabilization of mechatronic structures the control of growth of thin films and crystals the control of Laser and semi conductor devices and shape optimization problems for turbomachine blades shells smart materials and microdiffractive optics This volume contains original articles by world reknowned experts in the fields of optimal control of partial differential equations shape optimization numerical methods for partial differential equations and fluid dynamics all of whom have contributed to the analysis and solution of many of the problems discussed The collection provides a state of the art overview of the most challenging and exciting recent developments in the field It is geared towards postgraduate students and researchers dealing with the theoretical and practical aspects of a wide variety of high technology problems in applied mathematics fluid control optimal design and computer modelling *Finite Element Methods with B-Splines* Klaus Hollig,2012-12-13 An exploration of the new weighted approximation techniques which result from the combination of the finite element method and B splines **Partial Differential Equations and Inverse Problems** Carlos Conca,2004 This proceedings volume is a collection of articles from the Pan American Advanced Studies Institute on partial differential equations nonlinear analysis and inverse problems held in Santiago Chile Interactions among partial differential equations nonlinear analysis and inverse problems have produced remarkable developments over the last couple of decades This volume contains survey articles reflecting the work of leading experts who presented minicourses at the event Contributors include J Busca Y Capdeboscq M S Vogelius F A Grunbaum L F Matusevich M de Hoop and P Kuchment The volume is suitable for graduate students and researchers interested in partial differential equations and their applications in nonlinear analysis and inverse problems Quantum Waveguides Pavel Exner,Hynek Kovařík,2015-05-31 This monograph explains the theory of quantum waveguides that is dynamics of quantum particles confined to regions in the form of tubes layers networks etc The focus is on relations between the confinement geometry on the one hand and the spectral and scattering properties of the corresponding quantum Hamiltonians on the other Perturbations of such operators in particular by external fields are also considered The volume provides a unique summary of twenty five years of research activity in this area and indicates ways in which the theory can develop further The book is fairly self contained While it requires some broader mathematical physics background all the basic concepts are properly explained and proofs of most theorems are given in detail so there is no need for additional sources Without a parallel in the literature the monograph by Exner and Kovarik guides the reader through this new and exciting field

Computational Frameworks for the Fast Fourier Transform Charles Van Loan,1992-01-01 The author captures the interplay between mathematics and the design of effective numerical algorithms *Discontinuous Galerkin Methods for Solving Elliptic and Parabolic Equations* Beatrice Riviere,2008-12-18 Focuses on three primal DG methods covering both theory and computation and providing the basic tools for analysis **The Factorization Method for Inverse Scattering from Periodic Inhomogeneous Media** Kai Sandfort,2014-10-16 This book addresses the identification of the shape of

penetrable periodic media by means of scattered time harmonic waves Mathematically this is about the determination of the support of a function which occurs in the governing equations Our theoretical analysis shows that this problem can be strictly solved for acoustic as well as for electromagnetic radiation by the so called Factorization Method We apply this method to reconstruct a couple of media from numerically simulated field data Journal of the Optical Society of America ,2005

Smart Material Systems Ralph C. Smith,2005-03-01 This book describes several novel applications currently under investigation that exploit the unique actuator and sensor capabilities of smart material compounds In addition to present and projected applications this book provides comprehensive coverage of both linear and nonlinear modeling techniques necessary to characterize materials in a manner that facilitates transducer design and control development The author focuses on ferroelectric magnetic and shape memory compounds and also addresses applications exploiting amorphous and ionic polymers magnetorheological compounds and fiber optic sensors By providing a unified treatment of both linear and nonlinear characterization frameworks Smart Material Systems Model Development encompasses both low to moderate drive levels which constitute the primary focus of most present texts and the high drive regimes dictated by present and future applications This will significantly enhance the design of transducers and control systems which exploit the unique actuator and sensor capabilities provided by smart material compounds The Immersed Interface Method Zhilin Li,Kazufumi Ito,2006-01-01 This book provides an introduction to the immersed interface method IIM a powerful numerical method for solving interface problems and problems defined on irregular domains for which analytic solutions are rarely available This book gives a complete description of the IIM discusses recent progress in the area and describes numerical methods for a number of classic interface problems It also contains many numerical examples that can be used as benchmark problems for numerical methods designed for interface problems on irregular domains Iterative Methods for Optimization C. T. Kelley,1999-01-01 a carefully selected group of methods for unconstrained and bound constrained optimization problems is analyzed in depth both theoretically and algorithmically The book focuses on clarity in algorithmic description and analysis rather than generality and also provides pointers to the literature for the most general theoretical results and robust software **Bioterrorism** H. T. Banks,C. Castillo-Chavez,2003-01-01 Collects the detailed contributions of selected groups of experts from the fields of biostatistics control theory epidemiology and mathematical biology who have engaged in the development of frameworks models and mathematical methods needed to address some of the pressing challenges posed by acts of terror

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