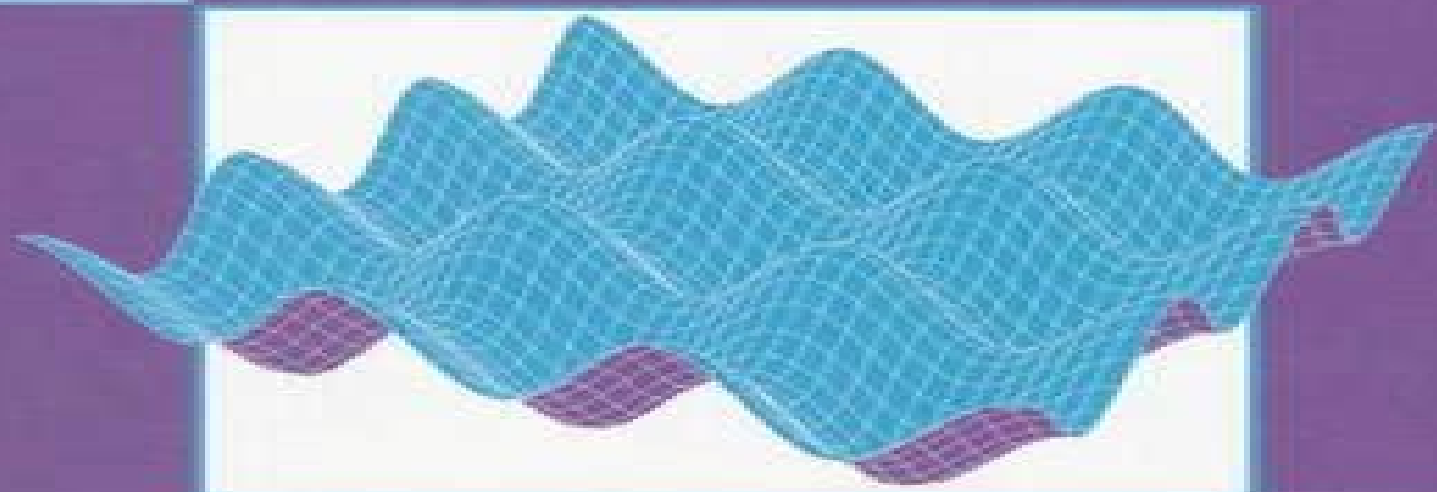


# Mathematical Modeling in Optical Science



Edited by

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# Mathematical Modeling In Optical Science Frontiers In Applied Mathematics

**K.-H. Hoffmann, Irena Lasiecka, G.  
Leugering, J. Sprekels, Fredi Tröltzsch**



## **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

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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**

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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

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 Schrödinger 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

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*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 renowned 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

**Journal of the Optical Society of America** ,2005

**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

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

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