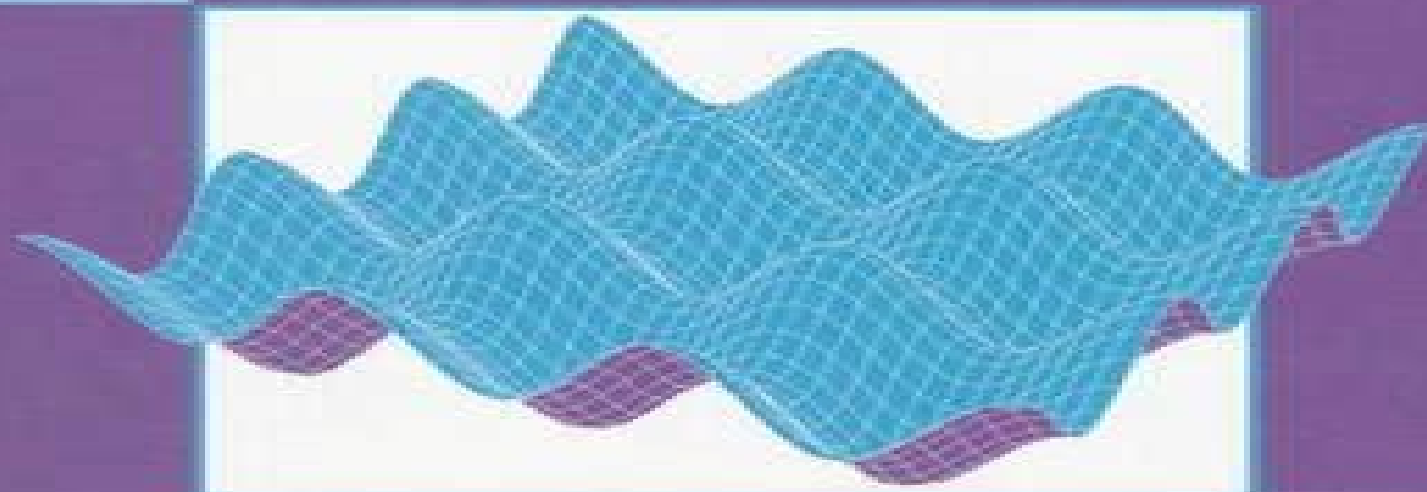


# Mathematical Modeling in Optical Science



Edited by

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# Mathematical Modeling In Optical Science Frontiers In Applied Mathematics

**Lauren Gardner**



## **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

**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

**Mathematical Analysis of Deterministic and Stochastic Problems in Complex Media Electromagnetics** G. F. Roach, I. G. Stratis, A. N. Yannacopoulos, 2012-03-04 Electromagnetic complex media are artificial materials that affect the propagation of electromagnetic waves in surprising ways not usually seen in nature Because of their wide range of important applications these materials have been intensely studied over the past twenty five years mainly from the perspectives of physics and engineering But a body of rigorous mathematical theory has also gradually developed and this is the first book to present that theory Designed for researchers and advanced graduate students in applied mathematics electrical engineering and physics this book introduces the electromagnetics of complex media through a systematic state of the art account of their mathematical theory The book combines the study of well posedness homogenization and controllability of Maxwell equations complemented with constitutive relations describing complex media The book treats deterministic and stochastic problems both in the frequency and time domains It also covers computational aspects and scattering problems among other important topics Detailed appendices make the book self contained in terms of mathematical prerequisites and accessible to engineers and physicists as well as mathematicians

*Journal of the Optical Society of America*, 2005 **Discontinuous Galerkin Methods for Solving Elliptic and Parabolic Equations** Beatrice Riviere, 2008-01-01 Discontinuous Galerkin DG methods for solving partial differential equations developed in the late 1990s have become popular among computational scientists This book covers both theory and computation as it focuses on three primal DG methods the symmetric interior penalty Galerkin incomplete interior penalty Galerkin and nonsymmetric interior penalty Galerkin which are variations of interior penalty methods The author provides the basic tools for analysis and discusses coding issues including data structure construction of local matrices and

assembling of the global matrix Computational examples and applications to important engineering problems are also included

**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

**Computational Frameworks for the Fast Fourier Transform** Charles Van Loan, 1992-01-01 The most comprehensive treatment of FFTs to date Van Loan captures the interplay between mathematics and the design of effective numerical algorithms a critical connection as more advanced machines become available A stylized Matlab notation which is familiar to those engaged in high performance computing is used The Fast Fourier Transform FFT family of algorithms has revolutionized many areas of scientific computation The FFT is one of the most widely used algorithms in science and engineering with applications in almost every discipline This volume is essential for professionals interested in linear algebra as well as those working with numerical methods The FFT is also a great vehicle for teaching key aspects of scientific computing

**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

**Mathematics Today**, 2000 *Mathematical Reviews*, 2002 **Journal of the Society for Industrial and Applied Mathematics. Series B: Numerical Analysis** Society for Industrial and Applied Mathematics, 2003-05

**Rundbrief der Gesellschaft für Angewandte Mathematik und Mechanik** Gesellschaft für Angewandte Mathematik und Mechanik, 2002

**Conference Proceedings**, 2002 *Physics, Theory, and Applications of Periodic Structures in Optics*, 2001 *American Book Publishing Record*, 2005 *Against the Grain*, 2002

**Books in Series, 1876-1949** R.R. Bowker Company, 1982 *Directory of Published Proceedings*, 1995 The British National Bibliography Arthur James Wells, 2007 Books in Series, 1985 Vols for 1980 issued in three parts Series Authors and Titles

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