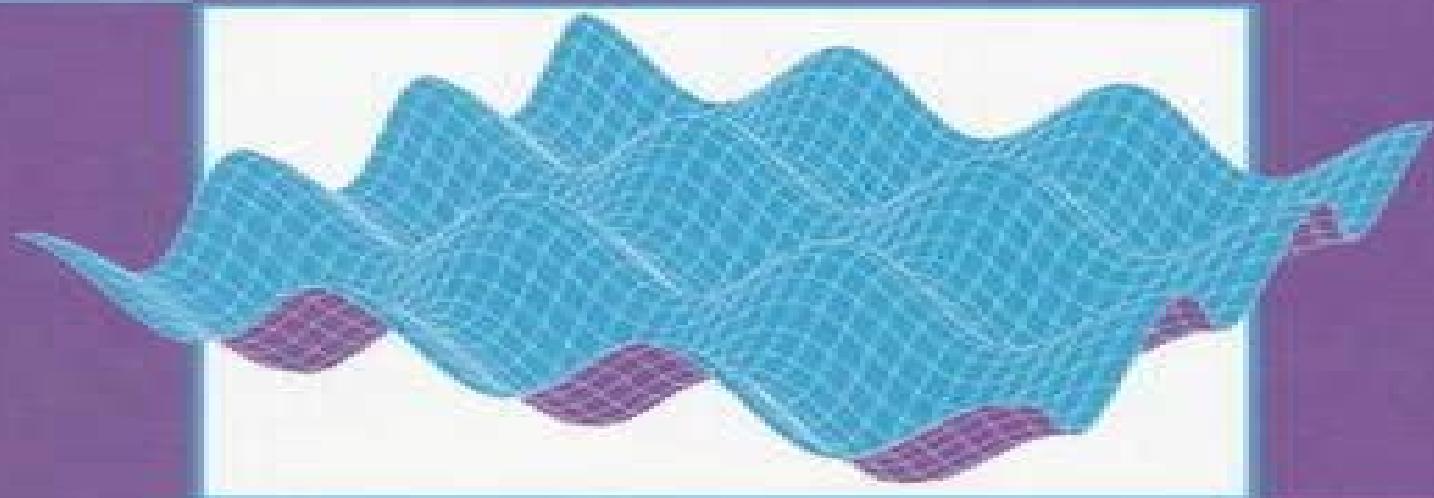


Mathematical Modeling in Optical Science



Edited by

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Mathematical Modeling In Optical Science Frontiers In Applied Mathematics

Lauren Gardner

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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

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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

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