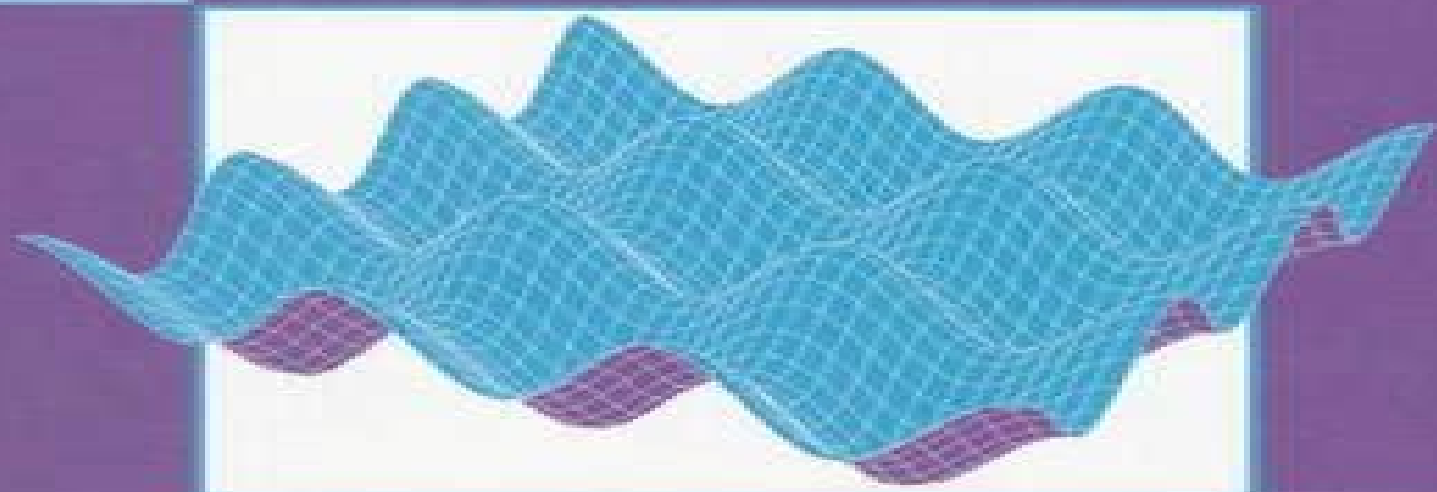


Mathematical Modeling in Optical Science



Edited by

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Mathematical Modeling In Optical Science Frontiers In Applied Mathematics

Matthias Ehrhardt



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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 *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 **Mathematical and Computational Techniques for Multilevel Adaptive**

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numerically simulated field data 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

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