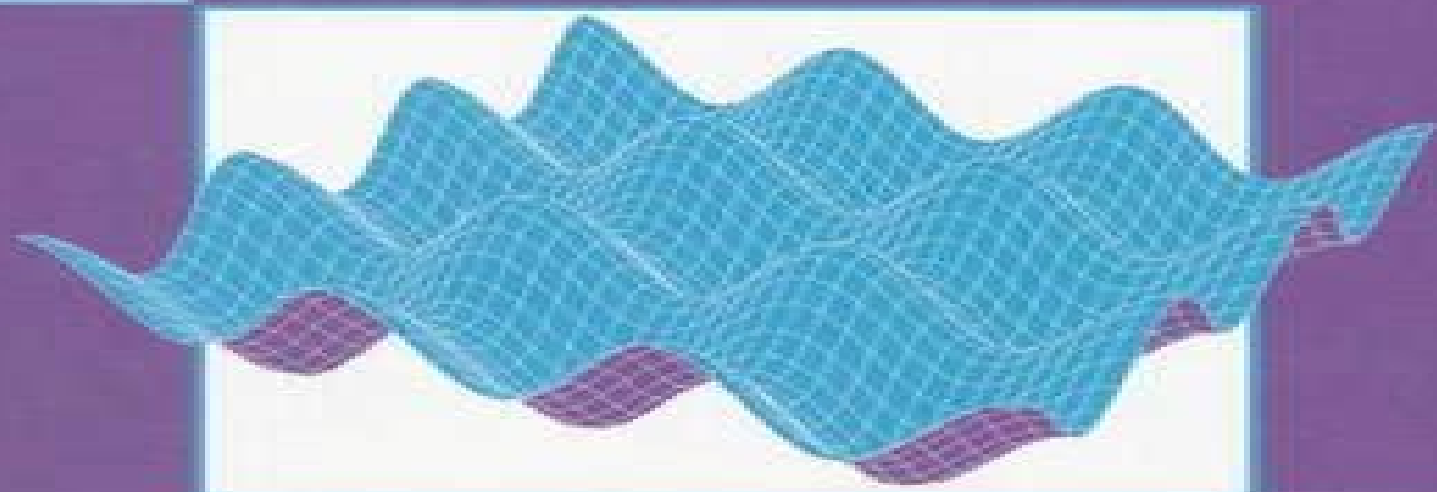


# Mathematical Modeling in Optical Science



Edited by

Gang Bao  
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# Mathematical Modeling In Optical Science Frontiers In Applied Mathematics

**Charles Van Loan**



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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**

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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 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     *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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