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Free Boundary Problems

Theory and Applications

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Free Boundary Value Problems International Series Of Numerical Mathematics Volume 95

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Free Boundary Value Problems International Series Of Numerical Mathematics Volume 95:

Free Boundary Value Problems HOFFMANN, SPREKELS, 2013-03-08 This monograph contains a collection of 16 papers that were presented at the conference Free Boundary Problems Numerical Treatment and Optimal Control held at the Mathematisches Forschungsinstitut Oberwolfach West Germany July 9-15 1989. It was the aim of the organizers of the meeting to bring together experts from different areas in the broad field of free boundary problems where a certain emphasis was given to the numerical treatment and optimal control of free boundary problems. However during the conference also a number of papers leading to important new theoretical insights were presented. The strong connection between theory and applications finds its reflection in this monograph which contains papers of high theoretical and numerical interest as well as applications to important practical problems. Many of the contributions are concerned with phase transition phenomena a field which was of particular importance during the meeting. Topics like spinodal decomposition, shape memory alloys, crystal growth and flow through porous media are addressed. Another field of major interest during the conference was fluid flow; also this field is addressed in this volume. The volume opens with a contribution by H. W. Alt and I. Pawlow. In their paper the problem of spinodal decomposition is treated in the non-isothermal situation. For the first time the existence of a weak solution to the corresponding system of evolution equations could be proved. The results of some numerical experiments are also reported. In the following paper M. Bornert and I. *Numerical Methods in Approximation Theory, Vol. 9* D. Braess, L. L. Schumaker, 2013-03-11 This book is the official proceedings of a conference on Numerical Methods in Approximation Theory which was held at the Mathematisches Forschungsinstitut in Oberwolfach during the week of November 24-30 1991. It contains refereed and edited papers by 20 of the 49 participants. The book is dedicated to the memory of Prof. Lothar Collatz who maintained a long and active interest in numerical approximation. It is the ninth in a series of volumes published by Birkhäuser resulting from conferences on the subject held at Oberwolfach and co-organized by Prof. Collatz. We now briefly describe the contents of the book. The paper of BASZENSKI, DELVOS and JESTER deals with blending using sine double series expansions of functions defined on the unit square. In addition to giving explicit error estimates for partial sums and for interpolating sine polynomials they also show that Boolean sums yield almost the same asymptotic error estimates as the conventional tensor product approach but with a reduced number of terms. The paper of BEATSON and LIGHT discusses approximation by quasi-interpolants which are sums of scaled translates of a one-parameter family of functions. They do not require reproduction of low degree polynomials but nevertheless are able to give error bounds and analyze quasi-interpolation based on Gaussians and exponentials. BINEV and JETTER deal with multivariate interpolation using shifts of a single basis function. They treat both gridded data and scattered data. As examples they consider box splines and certain radial basis functions. *Free Boundary Problems* Isabel Narra Figueiredo, Lisa Santos, 2007-01-11 This book collects refereed lectures and communications presented at the Free Boundary Problems Conference FBP2005. These discuss the

mathematics of a broad class of models and problems involving nonlinear partial differential equations arising in physics engineering biology and finance Among other topics the talks considered free boundary problems in biomedicine in porous media in thermodynamic modeling in fluid mechanics in image processing in financial mathematics or in computations for inter scale problems

Nonlinear Evolution Equations And Infinite Dimensional Dynamical Systems - Proceedings Of The Conference Tatsien Li,1997-01-04 This volume contains 30 research papers presenting the recent development and trend on the following subjects nonlinear hyperbolic equations systems nonlinear parabolic equations systems infinite dimensional dynamical systems applications free boundary problems phase transitions etc

Modelling and Control in Solid Mechanics A. M. Khludnev,Jan Sokołowski,1997 This book covers the boundary value problems for a wide range of mathematical models of the mechanics of deformable bodies in particular the boundary value problems concerning plates and shells crack theory and elastoplastic bodies An essential feature of the discussed boundary value problems is the availability of the inequality type constraints imposed on solutions such as the impenetration condition for contact problems the yield plasticity condition etc As a consequence the presence of free boundaries is typical of the boundary value problems concerned The objective of the book is to display some new methods of analyzing such problems as well as to perform research on new models evolved from engineering practice Readers will find a variety of new mathematical models describing some contact problems for plates and shells an equilibrium of plates involving cracks etc Furthermore some new mathematical methods are presented which were specially developed by the authors to study the problems concerned These help to convey a comprehensive picture of the present state of mathematical problems on the free boundary elasticity and plasticity theory The book is intended for postgraduates scientists and engineers and for Students interested in problems of modelling and optimal control in the mechanics of deformable bodies

Scientific and Technical Aerospace Reports,1995 *Subject Guide to Children's Books in Print 1997* Bowker Editorial Staff,R R Bowker Publishing,1996-09

Mathematical Methods and Models in Phase Transitions Alain Miranville,2005 The modelling and the study of phase transition phenomena are capital issues as they have essential applications in material sciences and in biological and industrial processes We can mention e g phase separation in alloys ageing of materials microstructure evolution crystal growth solidification in complex alloys surface diffusion in the presence of stress evolution of the surface of a thin flow in heteroepitaxial growth motion of voids in interconnects in integrated circuits treatment of airway closure disease by surfactant injection fuel injection fire extinguishers etc This book consists of 11 contributions from specialists in the mathematical modelling and analysis of phase transitions The content of these contributions ranges from the modelling to the mathematical and numerical analysis Furthermore many numerical simulations are presented Finally the contributors have tried to give comprehensive and accurate reference lists This book should thus serve as a reference book for researchers interested in phase transition phenomena

Software Systems for Structural Optimization H.R. Hörnlein,K.

Schnittkowski, 2013-03-07 Herbert Hornlein Klaus Schittkowski The finite element method FEM has been used successfully for many years to simulate and analyse mechanical structural problems The results are accepted or rejected by means of comparison of state variables stresses displacements natural frequencies etc and user requirements In further analyses the design variables will be updated until the user specifications are met and the design is feasible This is the primary aim of the design process On this set of feasible designs the additional requirement given by an objective function e g weight stiffness efficiency etc defines the structural optimization problem In recent years more and more finite element based analysis systems were extended and offer now optimization modules They proceed from the design model as defined for structural analysis to perform an internal adaption of design parameters based on formal mathematical methods Despite of many common features there are significant differences in the selected optimization strategy the current implementation and the numerical results

Mathematical Modelling and Simulation of Electrical Circuits and Semiconductor Devices

Randolph Bank, R. Bulirsch, H. Gajewski, K. Merten, 2012-12-06 Progress in today's high technology industries is strongly associated with the development of new mathematical tools A typical illustration of this partnership is the mathematical modelling and numerical simulation of electric circuits and semiconductor devices At the second Oberwolfach conference devoted to this important and timely field scientists from around the world mainly applied mathematicians and electrical engineers from industry and universities presented their new results Their contributions forming the body of this work cover electric circuit simulation device simulation and process simulation Discussions on experiences with standard software packages and improvements of such packages are included In the semiconductor area special lectures were given on new modelling approaches numerical techniques and existence and uniqueness results In this connection mention is made for example of mixed finite element methods an extension of the Baliga Patankar technique for a three dimensional simulation and the connection between semiconductor equations and the Boltzmann equations

The Boundary Element Method,

Volume 1 L. C. Wrobel, 2002-04-22 The boundary element method BEM is a modern numerical technique which has enjoyed increasing popularity over the last two decades and is now an established alternative to traditional computational methods of engineering analysis The main advantage of the BEM is its unique ability to provide a complete solution in terms of boundary values only with substantial savings in modelling effort This two volume book set is designed to provide the readers with a comprehensive and up to date account of the boundary element method and its application to solving engineering problems Each volume is a self contained book including a substantial amount of material not previously covered by other text books on the subject Volume 1 covers applications to heat transfer acoustics electrochemistry and fluid mechanics problems while volume 2 concentrates on solids and structures describing applications to elasticity plasticity elastodynamics fracture mechanics and contact analysis The early chapters are designed as a teaching text for final year undergraduate courses Both volumes reflect the experience of the authors over a period of more than twenty years of boundary element research This

volume Applications in Thermo Fluids and Acoustics provides a comprehensive presentation of the BEM from fundamentals to advanced engineering applications and encompasses Steady and transient heat transfer Potential and viscous fluid flows Frequency and time domain acoustics Corrosion and other electrochemical problems A unique feature of this book is an in depth presentation of BEM formulations in all the above fields including detailed discussions of the basic theory numerical algorithms and practical engineering applications of the method Written by an internationally recognised authority in the field this is essential reading for postgraduates researchers and practitioners in civil mechanical and chemical engineering and applied mathematics

Nonlinear Elliptic Partial Differential Equations Hervé Le Dret, 2018-05-25 This textbook presents the essential parts of the modern theory of nonlinear partial differential equations including the calculus of variations After a short review of results in real and functional analysis the author introduces the main mathematical techniques for solving both semilinear and quasilinear elliptic PDEs and the associated boundary value problems Key topics include infinite dimensional fixed point methods the Galerkin method the maximum principle elliptic regularity and the calculus of variations Aimed at graduate students and researchers this textbook contains numerous examples and exercises and provides several comments and suggestions for further study

New Technical Books New York Public Library, 1990

Current Trends in Mathematical Analysis and Its Interdisciplinary Applications Hemen Dutta, Ljubiša D. R. Kočinac, Hari M. Srivastava, 2019-08-23 This book explores several important aspects of recent developments in the interdisciplinary applications of mathematical analysis MA and highlights how MA is now being employed in many areas of scientific research Each of the 23 carefully reviewed chapters was written by experienced experts in respective field and will enrich readers understanding of the respective research problems providing them with sufficient background to understand the theories methods and applications discussed The book's main goal is to highlight the latest trends and advances equipping interested readers to pursue further research of their own Given its scope the book will especially benefit graduate and PhD students researchers in the applied sciences educators and engineers with an interest in recent developments in the interdisciplinary applications of mathematical analysis

Scientific, Medical and Technical Books. Published in the United States of America Reginald Robert Hawkins, 1953

Finite Elements Sashikumaar Ganesan, Lutz Tobiska, 2017-05-11 Written in easy to understand language this self explanatory guide introduces the fundamentals of finite element methods and its application to differential equations Beginning with a brief introduction to Sobolev spaces and elliptic scalar problems the text progresses through an explanation of finite element spaces and estimates for the interpolation error The concepts of finite element methods for parabolic scalar parabolic problems object oriented finite element algorithms efficient implementation techniques and high dimensional parabolic problems are presented in different chapters Recent advances in finite element methods including non conforming finite elements for boundary value problems of higher order and approaches for solving differential equations in high dimensional domains are explained for the benefit of

the reader Numerous solved examples and mathematical theorems are interspersed throughout the text for enhanced learning

Applied Diffusion Processes from Engineering to Finance Jacques Janssen,Oronzio Manca,Raimondo Manca,2013-04-08 The aim of this book is to promote interaction between engineering finance and insurance as these three domains have many models and methods of solution in common for solving real life problems The authors point out the strict inter relations that exist among the diffusion models used in engineering finance and insurance In each of the three fields the basic diffusion models are presented and their strong similarities are discussed Analytical numerical and Monte Carlo simulation methods are explained with a view to applying them to obtain the solutions to the different problems presented in the book Advanced topics such as nonlinear problems Levy processes and semi Markov models in interactions with the diffusion models are discussed as well as possible future interactions among engineering finance and insurance Contents 1 Diffusion Phenomena and Models 2 Probabilistic Models of Diffusion Processes 3 Solving Partial Differential Equations of Second Order 4 Problems in Finance 5 Basic PDE in Finance 6 Exotic and American Options Pricing Theory 7 Hitting Times for Diffusion Processes and Stochastic Models in Insurance 8 Numerical Methods 9 Advanced Topics in Engineering Nonlinear Models 10 Levy Processes 11 Advanced Topics in Insurance Copula Models and VaR Techniques 12 Advanced Topics in Finance Semi Markov Models 13 Monte Carlo Semi Markov Simulation Methods *International Books in Print, 1995* Barbara Hopkinson,[Anonymus AC01401231],1995

Multi-Valued Variational Inequalities and Inclusions Siegfried Carl,Vy Khoi Le,2021-03-02 This book focuses on a large class of multi valued variational differential inequalities and inclusions of stationary and evolutionary types with constraints reflected by subdifferentials of convex functionals Its main goal is to provide a systematic unified and relatively self contained exposition of existence comparison and enclosure principles together with other qualitative properties of multi valued variational inequalities and inclusions The problems under consideration are studied in different function spaces such as Sobolev spaces Orlicz Sobolev spaces Sobolev spaces with variable exponents and Beppo Levi spaces A general and comprehensive sub supersolution method lattice method is developed for both stationary and evolutionary multi valued variational inequalities which preserves the characteristic features of the commonly known sub supersolution method for single valued quasilinear elliptic and parabolic problems This method provides a powerful tool for studying existence and enclosure properties of solutions when the coercivity of the problems under consideration fails It can also be used to investigate qualitative properties such as the multiplicity and location of solutions or the existence of extremal solutions This is the first in depth treatise on the sub supersolution lattice method for multi valued variational inequalities without any variational structures together with related topics The choice of the included materials and their organization in the book also makes it useful and accessible to a large audience consisting of graduate students and researchers in various areas of Mathematical Analysis and Theoretical Physics

Topics in Spectral Geometry Michael Levitin,Dan Mangoubi,Iosif Polterovich,2023-11-30 It is remarkable that various distinct physical

phenomena such as wave propagation heat diffusion electron movement in quantum mechanics oscillations of fluid in a container can be described using the same differential operator the Laplacian Spectral data i e eigenvalues and eigenfunctions of the Laplacian depend in a subtle way on the geometry of the underlying object e g a Euclidean domain or a Riemannian manifold on which the operator is defined This dependence or rather the interplay between the geometry and the spectrum is the main subject of spectral geometry Its roots can be traced to Ernst Chladni s experiments with vibrating plates Lord Rayleigh s theory of sound and Mark Kac s celebrated question Can one hear the shape of a drum In the second half of the twentieth century spectral geometry emerged as a separate branch of geometric analysis Nowadays it is a rapidly developing area of mathematics with close connections to other fields such as differential geometry mathematical physics partial differential equations number theory dynamical systems and numerical analysis This book can be used for a graduate or an advanced undergraduate course on spectral geometry starting from the basics but at the same time covering some of the exciting recent developments which can be explained without too many prerequisites

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