Numerical Treatment of Free Boundary Value Problems: Workshop Numer.Treatment Free Bound.Value Probl.Oberwolfach (Operator Theory, Advances and Applications)

Albrecht

Numerical Treatment Of Free Boundary Value Problems

A. M. Khludnev,Jan Sokołowski

Numerical Treatment Of Free Boundary Value Problems:

Numerical Treatment of Free Boundary Value Problems Julius Albrecht,1982-06-01 Numerical Treatment of Free Boundary Value Problems / Numerische Behandlung freier Randwertaufgaben ALBRECHT,COLLATZ,HOFFMANN,2013-11-22 **Numerical Treatment of Free Boundary Value Problems Workshop on Numerical Treatment of Free Boundary Value Problems, OberwolfaObe Numerische Behandlung Freier Randwertaufgaben** K.-H. (Karl-Heinz) Hoffman,1982 **Numerical Treatment of Free Boundary Value Problems / Numerische Behandlung Freier Randwertaufgaben** Julius Albrecht,COLLATZ,HOFFMANN,1982 Free Boundary Value Problems HOFFMANN,SPREKELS,2013-03-08 This monograph contains a collection of 16 papers that were presented at the confer ence Free Boundary Problems Numerical 7reatment 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 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 con ference 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 **Free Boundary Problems Involving Solids** J M Chadam,Helen Rasmussen,1993-02-22 This is the second of three volumes containing the proceedings of the International Colloquium Free Boundary Problems Theory and Applications held in Montreal from June 13 to June 22 1990 The main theme of this volume is the concept of free boundary problems associated with solids The first free boundary problem the freezing of water the Stefan problem is the prototype of solidification problems which form the main part of this volume The two sections treting this subject cover a large variety of topics and procedures ranging from a theoretical mathematical treatment of solvability to numerical procedures for practical problems Some new and interesting problems in solid mechanics are discussed in the first section while in the last section the important new subject of solid solid phase transition is examined **A Variational Inequality Approach to free Boundary Problems with Applications in Mould Filling** Jörg Steinbach,2012-12-06 Since the early 1960s the mathematical theory of variational inequalities has been under rapid development based on complex

analysis and strongly influenced by real life application Many but of course not all moving free Le a priori un known boundary problems originating from engineering and economic applica tions can directly or after a transformation be formulated as variational inequal ities In this work we investigate an evolutionary variational inequality with a memory term which is as a fixed domain formulation the result of the application of such a transformation to a degenerate moving free boundary problem This study includes mathematical modelling existence uniqueness and regularity results numerical analysis of finite element and finite volume approximations as well as numerical simulation results for applications in polymer processing Essential parts of these research notes were developed during my work at the Chair of Applied Mathematics LAM of the Technical University Munich I would like to express my sincerest gratitude to K H Hoffmann the head of this chair and the present scientific director of the Center of Advanced European Studies and Research caesar for his encouragement and support With this work I am fol lowing a general concept of Applied Mathematics to which he directed my interest and which based on application problems comprises mathematical modelling mathematical and numerical analysis computational aspects and visualization of simulation results Numerical Treatment of Partial Differential Equations Christian Grossmann,Hans-G. Roos,Martin Stynes,2007-10-04 This book deals with discretization techniques for partial differential equations of elliptic parabolic and hyperbolic type It provides an introduction to the main principles of discretization and gives a presentation of the ideas and analysis of advanced numerical methods in the area The book is mainly dedicated to finite element methods but it also discusses difference methods and finite volume techniques Coverage offers analytical tools properties of discretization techniques and hints to algorithmic aspects It also guides readers to current developments in research Numerical Recipes 3rd Edition William H. Press,2007-09-06 Do you want easy access to the latest methods in scientific computing This greatly expanded third edition of Numerical Recipes has it with wider coverage than ever before many new expanded and updated sections and two completely new chapters The executable C code now printed in colour for easy reading adopts an object oriented style particularly suited to scientific applications Co authored by four leading scientists from academia and industry Numerical Recipes starts with basic mathematics and computer science and proceeds to complete working routines The whole book is presented in the informal easy to read style that made earlier editions so popular Highlights of the new material include a new chapter on classification and inference Gaussian mixture models HMMs hierarchical clustering and SVMs a new chapter on computational geometry covering KD trees quad and octrees Delaunay triangulation and algorithms for lines polygons triangles and spheres interior point methods for linear programming MCMC an expanded treatment of ODEs with completely new routines and many new statistical distributions For support or to subscribe to an online version please visit www nr com **Computational Methods for Optimal Design and Control** J. Borggaard,John Burns,Scott Schreck,2012-12-06 This volume contains the proceedings of the Second International Workshop on Optimal Design and Control held in Arlington Virginia 30 September 3 Octo ber 1997 The First Workshop was held in

Blacksburg Virginia in 1994 The proceedings of that meeting also appeared in the Birkhauser series on Progress in Systems and Control Theory and may be obtained through Birkhauser These workshops were sponsored by the Air Force Office of Scientific Re search through the Center for Optimal Design and Control CODAC at Vrrginia Tech The meetings provided a forum for the exchange of new ideas and were designed to bring together diverse viewpoints and to highlight new applications The primary goal of the workshops was to assess the current status of research and to analyze future directions in optimization based design and control The present volume contains the technical papers presented at the Second Workshop More than 65 participants from 6 countries attended the meeting and contributed to its success It has long been recognized that many modern optimal design problems are best viewed as variational and optimal control problems Indeed the famous problem of determining the body of revolution that produces a minimum drag nose shape in hypersonic How was first proposed by Newton in 1686 Optimal control approaches to design can provide theoretical and computational insight into these problems This volume contains a number of papers which deal with computational aspects of optimal control

Inverse Stefan Problems N.L. Gol'dman,2012-12-06 In this monograph the theory and methods of solving inverse Stefan problems for quasilinear parabolic equations in regions with free boundaries are developed The study of this new class of ill posed problems is motivated by the needs of the mod eling and control of nonlinear processes with phase transitions in thermophysics and mechanics of continuous media Inverse Stefan problems are important for the perfection of technologies both in high temperature processes e g metallurgy the aircraft industry astronautics and power engineering and in hydrology exploitation of oil gas fields etc The proposed book will complete a gap in these subjects in the preceding re searches of ill posed problems It contains the new theoretical and applied studies of a wide class of inverse Stefan problems The statements of such problems on the determination of boundary functions and coefficients of the equation are considered for different types of additional information about their solution The variational method of obtaining stable approximate solutions is proposed and established It is implemented by an efficient computational scheme of descriptive regularization This algorithm utilizes a priori knowledge of the qualitative structure of the sought solution and ensures a substantial saving in computational costs It is tested on model and applied problems in nonlinear thermophysics In particular the results of calculations for important applications in continuous casting of ingots and in the melting of a plate with the help of laser technology are presented **Evolution Equations and Lagrangian Coordinates** Anvarbek M. Meirmanov,Vladislav V. Pukhnachov,Sergei I. Shmarev,2011-07-20 The aim of the series is to present new and important developments in pure and applied mathematics Well established in the community over two decades it offers a large library of mathematics including several important classics The volumes supply thorough and detailed expositions of the methods and ideas essential to the topics in question In addition they convey their relationships to other parts of mathematics The series is addressed to advanced readers wishing to thoroughly study the topic Editorial Board Lev Birbrair Universidade Federal do Cear Fortaleza

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quality by being collected together Readers not only can see a result in its final form but also can trace its evolution J Fluid Mechanics 1994The book is an invaluable source of information and inspiration ona variety of important problems in modern physics EMS 1999 Directions In Condensed Matter Physics: Memorial Volume In Honor Of Shang-keng Ma Geoffrey Grinstein,G Mazenko,1986-08-01 This volume collects several in depth articles giving lucid discussions on new developments in statistical and condensed matter physics Many though not all contributors had been in touch with the late S K Ma Written by some of the world s experts and originators of new ideas in the field this book is a must for all researchers in theoretical physics Most of the articles should be accessible to diligent graduate students and experienced readers will gain from the wealth of materials contained herein **Structure and Dynamics of Partially Solidified Systems** D. Loper,2012-12-06 This volume contains papers presented at the NATO Advanced Research Workshop on the Structure and Dynamics of Partially Solidified Systems held at Stanford Sierra Lodge Tahoe California May 12 16 1986 This work shop grew out of a realization that there was a significant amount of interest and activity in this topic in several unrelated disciplines and that it would be mutually beneficial to bring together those mathemati cians scientists and engineers interested in this subject to share their knowledge and ideas with each other Partially solidified systems occur in a variety of natural and man made environments Perhaps the most well known occurrence involves the solidification of metallic alloys Typically as a molten alloy is cooled the solid phase advances from the cold boundary into the liquid as a branching forest of dendritic crystals This creates a region of mixed solid and liquid phases commonly referred to as a mushy zone in which the solid forms a rigidly connected framework with the liquid occurring in the intercrystalline gaps In addition to the casting of metallic alloys mushy zones can occur in weld pools the Earth s core and mantle magma chambers temperate glaciers frozen soils frozen lakes and sea ice A second mechanical configuration for the solid phase is as a suspension of small crystals within the liquid this is referred to as a slurry *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 Numerical Simulation in Fluid Dynamics Michael Griebel,Thomas Dornsheifer,Tilman Neunhoeffer,1998-01-01 In this translation of the German edition the authors provide insight into the numerical simulation of fluid flow Using a simple numerical method as an expository example the individual steps of scientific computing are presented the derivation of the mathematical model the discretization of the model equations the development of algorithms parallelization and visualization of the computed data In addition to the treatment of the basic equations for modeling laminar transient flow of viscous incompressible fluids the Navier Stokes equations the authors look at the simulation of free surface flows energy and chemical transport and turbulence Readers are enabled to write their own flow simulation program from scratch The variety of applications is shown in several simulation results including 92 black and white and 18 color illustrations After reading this book readers should be able to understand more enhanced algorithms of computational fluid dynamics and apply their new knowledge to other scientific fields **Mathematical Models for Phase Change Problems** J.F. Rodriques,2013-03-07 This monograph collects research and expository articles reflect ing the interaction and the cooperation of different groups in several European institut ions concerning current research on mathematical models for the behaviour of materials with phase change These papers were presented and discussed in a Workshop held at Obidos Portugal du ring the first three days of October 1988 and grew out of a two year period of intensive exploitation of differ ent abilities and mathematical experiences of the six participating groups namely in the University of Augsburg wh ich was the co ordination center of this project the Laboratoire Central des Ponts et Chaussees of Paris the Aristoteles University of Thessaloniki the University of Florence the University of Lisbon and the University of Oxford This project was carried out under the title Mathemat ical Models of Phase Transitions and Numerical Simulation in the framework of twinning program for stimulation of cooperation and scientific interchange sponsored by the European Community The underlying idea of the project was to create and study the mathematical models arising in applied engineering problems with free boundaries in a broad sense namely in melting and freezing problems diffusion reaction processes solid solid phase transition hysteresis phenomena mushy region descriptions contact prob lems with friction andjor adhesion elastoplastic deformations etc vi This large spectrum of applied problems have in common the main feature of brusque transitions of their qualitative behaviour that correspond in general to non classical discontinuous monotone or non monotone strong nonlinearities in the mathematical equations

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