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

Christian Grossmann,Hans-G. Roos,Martin Stynes

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   <u>Numerical Treatment of Free Boundary Value Problems / Numerische Behandlung Freier Randwertaufgaben</u> 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-Görg Roos,Martin Stynes,2007-08-11 Many well known models in the natural sciences and engineering and today even in economics depend on partial di erential equations Thus the e cient numerical solution of such equations plays an ever increasing role in state the art technology This demand and the computational power available from current computer hardware have together stimulated the rapid development of numerical methods for partial di erential equations a development that encompasses convergence analyses and implementational aspects of software packages In 1988 we started work on the rst German edition of our book which appeared in 1992 Our aim was to give students a textbook that contained the basic concepts and ideas behind most numerical methods for partial di er tial equations The success of this rst edition and the second edition in 1994 encouraged us ten years later to write an almost completely new version taking into account comments from colleagues and students and drawing on the enormous progress made in the numerical analysis of partial di erential equations in recent times The present English version slightly improves the third German edition of 2005 we have corrected some minor errors and added additional material and references   **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

Variational Approach to Hyperbolic Free Boundary Problems Seiro Omata,Karel Svadlenka,Elliott Ginder,2022-11-28 This volume is devoted to the study of hyperbolic free boundary problems possessing variational structure Such problems can be used to model among others oscillatory motion of a droplet on a surface or bouncing of an elastic body against a rigid obstacle In the case of the droplet for example the membrane surrounding the fluid in general forms a positive contact angle with the obstacle and therefore the second derivative is only a measure at the contact free boundary set We will show how to derive the mathematical problem for a few physical systems starting from the action functional discuss the mathematical theory and introduce methods for its numerical solution The mathematical theory and numerical methods depart from the classical approaches in that they are based on semi discretization in time which facilitates the application of the modern theory of calculus of variations 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 *Partial Differential Equations in China* Chaohao Gu,Xiaxi Ding,Chung-Chun Yang,2012-12-06 In the past few years there has been a fruitful exchange of expertise on the subject of partial differential equations PDEs between mathematicians from the People s Republic of China and the rest of the world The goal of this collection of papers is to summarize and introduce the historical progress of the development of PDEs in China from the 1950s to the 1980s The results presented here were mainly published before the 1980s but having been printed in the Chinese language have not reached the wider audience they deserve Topics covered include among others nonlinear hyperbolic equations nonlinear elliptic equations nonlinear parabolic equations mixed equations free boundary problems minimal surfaces in Riemannian

manifolds microlocal analysis and solitons For mathematicians and physicists interested in the historical development of PDEs in the People s Republic of China **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 Brasil Walter D Neumann Columbia University New York USA Markus J Pflaum University of Colorado Boulder USA Dierk Schleicher Jacobs University Bremen Germany Katrin Wendland University of Freiburg Germany Honorary Editor Victor P Maslov Russian Academy of Sciences Moscow Russia Titles in planning include Yuri A Bahturin Identical Relations in Lie Algebras 2019 Yakov G Berkovich and Z Janko Groups of Prime Power Order Volume 6 2019 Yakov G Berkovich Lev G Kazarin and Emmanuel M Zhmud Characters of Finite Groups Volume 2 2019 Jorge Herbert Soares de Lira Variational Problems for Hypersurfaces in Riemannian Manifolds 2019 Volker Mayer Mariusz Urba ski and Anna Zdunik Random and Conformal Dynamical Systems 2021 Ioannis Diamantis Bo tjan Gabrov ek Sofia Lambropoulou and Maciej Mroczkowski Knot Theory of Lens Spaces 2021 **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 *From Order to Chaos II* Leo P. Kadanoff,1999 This book is a compilation of the review papers expositions and some of the technical works of Leo Kadanoff a theoretical physicist The objective is to put together a group of not too technical writing in which he discusses some issues in condensed matter physics hydrodynamics applied mathematics and national policy This expanded edition is divided into five sections The first section contains review papers on hydrodynamics condensed matter physics and field theory Next is a selection of papers on scaling and universality particularly as applied to phase changes A change of pace is provided by a series of papers on the critical analysis of simulation models of urban economic and social development The book concludes with a series of recent papers on complex patterns Each major section has an introduction designed to tie the work together and to provide perspective on the subject matter *From Order to Chaos* Leo P. Kadanoff,1993 World Scientific has made available a collection of Leo s reviews essays columns and commentaries which is a feast in several senses the strategy and tactics of science the science itself the history of several important developments in science and as a bonus a beautifully illustrated collection of essays on computational science The average reader may find this the final section of the book most interesting but for me the account of his discovery of scaling for which inexplicably he did not receive the Nobel prize is most intriguing Leo s combination of verve frankness and insight makes this a very good read P W AndersonPrinceton Univ Publication of this volume will be very

useful especially for young readers The papers disseminated over many journals acquire a new 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

European Symposium on Computer-Aided Process Engineering-15 L. Puigjaner,A. Espuña,2005   **Optimal Control of Nonlinear Parabolic Systems** Pekka Neittaanmaki,D. Tiba,1994-02-08 This book discusses theoretical approaches to the study of optimal control problems governed by non linear evolutions including semi linear equations variational inequalities and systems with phase transitions It also provides algorithms for solving non linear parabolic systems and multiphase Stefan like systems

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