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# Free Boundary Problems

Theory and Applications

Pierluigi Colli  
Claudio Verdi  
Augusto Visintin  
Editors



Birkhäuser

# Free Boundary Problems Theory And Applications

## International Series Of Numerical Mathematics

**Nobuyuki Kenmochi**



## **Free Boundary Problems Theory And Applications International Series Of Numerical Mathematics:**

Free Boundary Problems Pierluigi Colli, Claudio Verdi, Augusto Visintin, 2012-12-06 Many phenomena of interest for applications are represented by differential equations which are defined in a domain whose boundary is a priori unknown and is accordingly named a free boundary A further quantitative condition is then provided in order to exclude indeterminacy Free boundary problems thus encompass a broad spectrum which is represented in this state of the art volume by a variety of contributions of researchers in mathematics and applied fields like physics biology and material sciences Special emphasis has been reserved for mathematical modelling and for the formulation of new problems **Free Boundary Problems**

Pierluigi Colli, Claudio Verdi, Augusto Visintin, 2003-11-27 Many phenomena of interest for applications are represented by differential equations which are defined in a domain whose boundary is a priori unknown and is accordingly named a free boundary A further quantitative condition is then provided in order to exclude indeterminacy Free boundary problems thus encompass a broad spectrum which is represented in this state of the art volume by a variety of contributions of researchers in mathematics and applied fields like physics biology and material sciences Special emphasis has been reserved for mathematical modelling and for the formulation of new problems 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 Numerical Methods for Free Boundary Problems

VEITTAANMÄKI, 2013-11-22 About 80 participants from 16 countries attended the Conference on Numerical Methods for Free Boundary Problems held at the University of Jyväskylä Finland July 23 27 1990 The main purpose of this conference was to provide up to date information on important directions of research in the field of free boundary problems and their numerical solutions The contributions contained in this volume cover the lectures given in the conference The invited lectures were given by H W Alt V Barbu K H Hoffmann H Mittelmann and V Rivkind In his lecture H W Alt considered a mathematical model and existence theory for non isothermal phase separations in binary systems The lecture of V Barbu was on the approximate solvability of the inverse one phase Stefan problem K H Hoffmann gave an up to date survey of several directions in free boundary problems and listed several applications but the material of his lecture is not included in this proceedings H D Mittelmann handled the stability of thermo capillary convection in float zone crystal growth V Rivkind considered numerical methods for solving coupled Navier Stokes and Stefan equations Besides of those invited lectures mentioned above there were 37 contributed papers presented We shall briefly outline the topics of the contributed papers Stefan like problems Modelling existence and uniqueness Numerical Mathematics and Advanced Applications F. Brezzi, A.

Buffa, S. Corsaro, A. Murli, 2012-12-06 Scientific computing is a fast growing and fast changing area whose applications to various branches of science engineering medicine economics and others are increasing in number and relevance every day There are two main reasons among others that make scientific computing change so rapidly One is the increasing number of different research areas beginning to make use of numerical simulation from nanotechnology to genomics from computer aided diagnosis and operations in medical applications which involve often complete simulations of parts of the human body to economics and finance Each new application and each new aspect of earlier applications draws heavily on the know how that has been acquired on other problems with similar mathematical features It has to be pointed out that the lofty perspective of mathematics succeeds quite often in finding connections among very different phenomena that turn out in the end to share the same mathematical and numerical structure In turn new applications contribute to the cross fertilization by sending back new interpretations and suggestions which are often useful in more classical applications All this creates a resonance effect that contributes greatly to the growth rate of the whole field

**Hyperbolic Problems: Theory, Numerics, Applications** Rolf Jeltsch, Michael Fey, 2012-12-06 Proceedings of International Conference On: Free Boundary Problems, Theory and Applications Nobuyuki Kenmochi, 2000 **Free Boundary Problems** Ioannis

Athanasopoulos, 2019-11-11 Free boundary problems arise in an enormous number of situations in nature and technology They hold a strategic position in pure and applied sciences and thus have been the focus of considerable research over the last three decades Free Boundary Problems Theory and Applications presents the work and results of experts at the forefront of current research in mathematics material sciences chemical engineering biology and physics It contains the plenary lectures and contributed papers of the 1997 International Interdisciplinary Congress proceedings held in Crete The main topics addressed include free boundary problems in fluid and solid mechanics combustion the theory of filtration and glaciology Contributors also discuss material science modeling recent mathematical developments and numerical analysis advances within their presentations of more specific topics such as singularities of interfaces cusp cavitation and fracture capillary fluid dynamics of film coating dynamics of surface growth phase transition kinetics and phase field models With the implications of free boundary problems so far reaching it becomes important for researchers from all of these fields to stay abreast of new developments Free Boundary Problems Theory and Applications provides the opportunity to do just that presenting recent advances from more than 50 researchers at the frontiers of science mathematics and technology *The Classical Stefan Problem* S.C. Gupta, 2017-10-13 The Classical Stefan Problem Basic Concepts Modelling and Analysis with Quasi Analytical Solutions and Methods New Edition provides fundamental theory concepts modelling and analysis of the physical mathematical thermodynamical and metallurgical properties of classical Stefan and Stefan like problems as applied to heat transfer problems involving phase changes such as from liquid to solid This self contained work reports and derives the results from tensor analysis differential geometry non equilibrium thermodynamics physics and functional analysis and is

thoroughly enriched with many appropriate references for an in depth background reading on theorems This new edition includes more than 400 pages of new material on quasi analytical solutions and methods of classical Stefan and Stefan like problems The book aims to bridge the gap between the theoretical and solution aspects of the afore mentioned problems Provides both the phenomenology and mathematics of Stefan problems Bridges physics and mathematics in a concrete and readable manner Presents well organized chapters that start with proper definitions followed by explanations and references for further reading Includes both numerical and quasi analytical solutions and methods of classical Stefan and Stefan like problems

Modeling, Simulation, and Optimization of Integrated Circuits K. Antreich, R. Bulirsch, A. Gilg, P.

Rentrop, 2012-12-06 In November 2001 the Mathematical Research Center at Oberwolfach Germany hosted the third Conference on Mathematical Models and Numerical Simulation in Electronic Industry It brought together researchers in mathematics electrical engineering and scientists working in industry The contributions to this volume try to bridge the gap between basic and applied mathematics research in electrical engineering and the needs of industry

Free Boundary Problems in Continuum Mechanics S.N. Antontsev, K.H. Hoffmann, A.M. Khludnev, 2013-03-07 Progress in different fields of mechanics such as filtration theory elastic plastic problems crystallization processes internal and surface waves etc is governed to a great extent by the advances in the study of free boundary problems for nonlinear partial differential equations Free boundary problems form a scientific area which attracts attention of many specialists in mathematics and mechanics Increasing interest in the field has given rise to the International Conferences on Free Boundary Problems and Their Applications which have convened since the 1980s in such countries as England the United states Italy France and Germany This book comprises the papers presented at the International Conference Free Boundary Problems in Continuum Mechanics organized by the Lavrentyev Institute of Hydrodynamics Russian Academy of Sciences July 15 19 1991

Novosibirsk Russia The scientific committee consisted of Co chairmen K H Hoffmann L V Ovsianikov S Antontsev Russia J Ockendon UK M Fremont France L Ovsianikov Russia A Friedman USA S Pokhozhaev Russia K H Hoffmann Germany M Primicerio Italy A Khludnev Russia V Pukhnachov Russia V Monakhov Russia Yu Shokin Russia V Teshukov Russia Our thanks are due to the members of the Scientific Committee all authors and participants for contributing to the success of the Conference We would like to express special appreciation to N Makarenko J Mal'tseva and T Savelieva Lavrentyev Institute of Hydrodynamics for their help in preparing this book for publication

*Flow in Porous Media* J. Douglas, U.

Hornung, 2012-12-06 Jim Douglas Jr These proceedings reflect some of the thoughts expressed at the Oberwolfach Conference on Porous Media held June 21 27 1992 organized by Jim Douglas Jr Ulrich Hornung and Cornelius J van Duijn Forty five scientists attended the conference and about thirty papers were presented Fourteen manuscripts were submitted for the proceedings and are incorporated in this volume they cover a number of aspects of flow and transport in porous media Indeed there are 223 individual references in the fourteen papers but fewer than fifteen are cited in more than one paper The

papers appear in alphabetical order on the basis of the first author A brief introduction to each paper is given below Allen and Curran consider a variety of questions related to the simulation of ground water contamination Accurate water velocities are essential for acceptable results and the authors apply mixed finite elements to the pressure equation to obtain these velocities Since fine grids are required to resolve heterogeneities standard iterative procedures are too slow for practical simulation the authors introduce a parallelizable multigrid based iterative scheme for the lowest order Raviart Thomas mixed method Contaminant transport is approximated through a finite element collocation procedure and an alternating direction modified method of characteristics technique is employed to time step the simulation Computational experiments carried out on an nCube 2 computer

*Optimal Control of Partial Differential Equations II: Theory and Applications* K.-H. Hoffmann, W. Krabs, 2013-03-14 This volume contains the contributions of participants of the conference Optimal Control of Partial Differential Equations which under the chairmanship of the editors took place at the Mathematisches Forschungsinstitut Oberwolfach from May 18 to May 24 1986 The great variety of topics covered by the contributions strongly indicates that also in the future it will be impossible to develop a unifying control theory of partial differential equations On the other hand there is a strong tendency to treat problems which are directly connected to practical applications So this volume contains real world applications like optimal cooling laws for the production of rolled steel or concrete solutions for the problem of optimal shape design in mechanics and hydrodynamics Another main topic is the construction of numerical methods This includes applications of the finite element method as well as of Quasi Newton methods to constrained and unconstrained control problems Also very complex problems arising in the theory of free boundary value problems are treated Inally some contributions show how practical problems stimulate the further development of the theory in particular this is the case for fields like suboptimal control necessary optimality conditions and sensitivity analysis As usual the lectures and stimulating discussions took place in the pleasant atmosphere of the Mathematisches Forschungsinstitut Oberwolfach Special thanks of the participants are returned to the Director as well as to the staff of the institute

**Free Boundary Problems, Theory and Applications** Nobuyuki Kenmochi, 2000

**Topological Optimization and Optimal Transport** Maïtine Bergounioux, Édouard Oudet, Martin Rumpf, Guillaume Carlier, Thierry Champion, Filippo Santambrogio, 2017-08-07 By discussing topics such as shape representations relaxation theory and optimal transport trends and synergies of mathematical tools required for optimization of geometry and topology of shapes are explored Furthermore applications in science and engineering including economics social sciences biology physics and image processing are covered Contents Part I Geometric issues in PDE problems related to the infinity Laplace operator Solution of free boundary problems in the presence of geometric uncertainties Distributed and boundary control problems for the semidiscrete Cahn Hilliard Navier Stokes system with nonsmooth Ginzburg Landau energies High order topological expansions for Helmholtz problems in 2D On a new phase field model for the approximation of interfacial

energies of multiphase systems Optimization of eigenvalues and eigenmodes by using the adjoint method Discrete varifolds and surface approximation Part II Weak Monge Ampere solutions of the semi discrete optimal transportation problem Optimal transportation theory with repulsive costs Wardrop equilibria long term variant degenerate anisotropic PDEs and numerical approximations On the Lagrangian branched transport model and the equivalence with its Eulerian formulation On some nonlinear evolution systems which are perturbations of Wasserstein gradient flows Pressureless Euler equations with maximal density constraint a time splitting scheme Convergence of a fully discrete variational scheme for a thin film equation Interpretation of finite volume discretization schemes for the Fokker Planck equation as gradient flows for the discrete Wasserstein distance      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 unknown boundary problems originating from engineering and economic applications can directly or after a transformation be formulated as variational inequalities 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 following 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      Microgravity Science & Applications ,1993      **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 treating 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      *Numerical Mathematics Singapore 1988* Agarwal, Chwo, Wilson, 2013-11-21      **Finite Volumes for Complex Applications VI Problems & Perspectives** Jaroslav

Forť, Jiří Fürst, Jan Halama, Raphaële Herbin, Florence Hubert, 2011-07-21 Finite volume methods are used for various applications in fluid dynamics magnetohydrodynamics structural analysis or nuclear physics A closer look reveals many interesting phenomena and mathematical or numerical difficulties such as true error analysis and adaptivity modelling of multi phase phenomena or fitting problems stiff terms in convection diffusion equations and sources To overcome existing problems and to find solution methods for future applications requires many efforts and always new developments The goal of The International Symposium on Finite Volumes for Complex Applications VI is to bring together mathematicians physicists and engineers dealing with Finite Volume Techniques in a wide context This book divided in two volumes brings a critical look at the subject new ideas limits or drawbacks of methods theoretical as well as applied topics



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