

K H Hoffmann and J Sprekels

**Free Boundary  
Problems:  
Theory and  
Applications**

Volume II

# Free Boundary Problems Theory And Applications

## Volume I Research Notes In Mathematics 78

**Jörg Steinbach**



## **Free Boundary Problems Theory And Applications Volume I Research Notes In Mathematics 78:**

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

**Free Boundary Problems** J I Diaz, Juan

Luis Vazquez, M A Herrero, Amable Linan, 1995-04-04 This research note consists of selected contributions from the 1993 International Conference on Free Boundary Problems Theory and Applications These represent coherent and high level research in the field of free boundary problems Topics include mean curvature flows phase transitions and material sciences fluid mechanics and combustion problems

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 prob lems 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 hydrody namics 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 con strained and unconstrained control problems Also very complex problems arising in the theory of free boundary value problems are treated inally some contribu tions 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 A. Bossavit, M. Fremond, 1985 *Free Boundary Problems, Theory and Applications* Marek Niezgodka, Pawel Strzelecki, 1996-11-25 Addressing various aspects of nonlinear partial differential equations this volume contains papers and lectures presented at the Congress on Free boundary Problems Theory and Application held in Zakopane Poland in 1995 Topics include existence uniqueness asymptotic behavior and regularity of solutions and interfaces

Free Boundary Problems Alain Bossavit, Antonio Fasano, 1985 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

*Metastability and Incompletely Posed Problems* Stuart S. Antman, J.L. Ericksen, David Kinderlehrer, Ingo Müller, 2012-12-06 This IMA Volume in Mathematics and its Applications Metastability and Incompletely Posed Problems represents the proceedings of a workshop which was an integral part of the 1994 R5 IMA program on CONTINUUM PHYSICS AND PARTIAL DIFFERENTIAL EQUATIONS We are grateful to the Scientific Committee I L Ericksen D Kinderlehrer H Ryzhik C Dafermos for their dedication and hard work in developing an imaginative stimulating and productive year long program George R Sell Hans Weinberger Preface Most equilibrium events in nature do not realize configurations of minimum energy They are only metastable Available knowledge of constitutive relations and environmental interactions may be limited As a result many configurations may be compatible with the data Such questions are incompletely posed The papers in this volume address a wide variety of these issues as they are perceived by the material scientist and the mathematician They represent a portion of the significant activity which has been underway in recent years from the experimental arena and physical theory to the analysis of differential equations and computation

*Obstacle Problems in Mathematical Physics* J.-F. Rodrigues, 1987-03-01 The aim of this research monograph is to present a general

account of the applicability of elliptic variational inequalities to the important class of free boundary problems of obstacle type from a unifying point of view of classical Mathematical Physics The first part of the volume introduces some obstacle type problems which can be reduced to variational inequalities Part II presents some of the main aspects of the theory of elliptic variational inequalities from the abstract hilbertian framework to the smoothness of the variational solution discussing in general the properties of the free boundary and including some results on the obstacle Plateau problem The last part examines the application to free boundary problems namely the lubrication cavitation problem the elastoplastic problem the Signorini or the boundary obstacle problem the dam problem the continuous casting problem the electrochemical machining problem and the problem of the flow with wake in a channel past a profile

**nonlinear analysis and applications** Lakshmikantham, 2020-11-26 This book attempts to put together the works of a wide range of mathematical scientists It consists of the proceedings of the Seventh Conference on Nonlinear Analysis and Applications including papers that were delivered as invited talks and research reports

**Industrial Mathematics** Mohan C. Joshi, Amiya Kumar Pani, Sanjeev V. Sabnis, 2006 This monograph contains results of recent research interests concerning solution strategies employed for solving real life problems pertaining to modelling and scientific computing control and optimizations and financial mathematics

**Mathematical Research in Materials Science** National Research Council, Division on Engineering and Physical Sciences, Commission on Physical Sciences, Mathematics, and Applications, Committee on Mathematical Sciences Applied to Materials Science, 1993-02-01 This book describes fruitful past collaborations between the mathematical and materials sciences and indicates future challenges It seeks both to encourage mathematical sciences research that will complement vital research in materials science and to raise awareness of the value of quantitative methods The volume encourages both communities to increase cross disciplinary collaborations emphasizing that each has much to gain from such an increase and it presents recommendations for facilitating such work This book is written for both mathematical and materials science researchers interested in advancing research at this interface for federal and state agency representatives interested in encouraging such collaborations and for anyone wanting information on how such cross disciplinary collaborative efforts can be accomplished successfully

**Proceedings of the Fourth European Conference on Mathematics in Industry** U. Wacker, Walter Zulehner, 2012-12-06 The Fourth ECMI Conference on Industrial Mathematics took place at Strobl in Austria May 29 June 2 1989 The conference was devoted to the exchange of ideas models and methods from various fields of industrial applications of mathematics About 140 people from 21 countries attended the meeting The aim was to bring together people from industry and from university In this respect the organizers were only partly successful The participation of about 20 people from industry shows that there is still much work to be done to increase the acceptance from this side 72 speakers presented their results as invited or contributed lectures or in the frame of 2 minisymposia One minisymposium was organized by Heinz W Engl and focused on steel processing the other one

organized by Hansjorg Wacker dealt with chemical engineering These proceedings consist of 56 papers The articles within each of the sections Invited Lectures Minisymposium Steel Processing Minisymposium Chemical Engineering and Contributed Lectures are in alphabetical order of the first author Except for the contributions to the minisymposia which clearly concentrate on the corresponding topics it is hard to find a reasonable classification of the papers This we believe is typical for industrial mathematics and underlines the vast variety of fields where mathematics could be used to support problem solving We would like to acknowledge the valuable work of the referees of the articles who certainly helped to improve the quality of this volume     Hysteresis and Phase Transitions Martin Brokate, Jürgen Sprekels, 2012-12-06

Hysteresis is an exciting and mathematically challenging phenomenon that occurs in rather different situations it can be a byproduct of fundamental physical mechanisms such as phase transitions or the consequence of a degradation or imperfection like the play in a mechanical system or it is built deliberately into a system in order to monitor its behaviour as in the case of the heat control via thermostats The delicate interplay between memory effects and the occurrence of hysteresis loops has the effect that hysteresis is a genuinely nonlinear phenomenon which is usually non smooth and thus not easy to treat mathematically Hence it was only in the early seventies that the group of Russian scientists around M A Krasnoselskii initiated a systematic mathematical investigation of the phenomenon of hysteresis which culminated in the fundamental monograph Krasnoselskii Pokrovskii 1983 In the meantime many mathematicians have contributed to the mathematical theory and the important monographs of I Mayergoyz 1991 and A Visintin 1994a have appeared We came into contact with the notion of hysteresis around the year 1980     *Problems in Nonlinear Diffusion* Antonio Fasano, Mario Primicerio, 2006-11-14     Free Boundary Problems Antonio Fasano, Mario Primicerio, 1983     Mathematical Models for Phase Change Problems J.F. Rodrigues, 2013-03-07 This monograph collects research and expository articles reflecting the interaction and the cooperation of different groups in several European institutions 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 during the first three days of October 1988 and grew out of a two year period of intensive exploitation of different abilities and mathematical experiences of the six participating groups namely in the University of Augsburg which was the coordination center of this project the Laboratoire Central des Ponts et Chaussées 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 Mathematical 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 problems with friction and/or

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      **Applied Mechanics Reviews** ,1971      **Lecture Notes in Pure and Applied Mathematics** ,1987      **Mathematical Models for Eddy Currents and Magnetostatics** Rachid Touzani,Jacques Rappaz,2013-10-01 This monograph addresses fundamental aspects of mathematical modeling and numerical solution methods of electromagnetic problems involving low frequencies i e magnetostatic and eddy current problems which are rarely presented in the applied mathematics literature In the first part the authors introduce the mathematical models in a realistic context in view of their use for industrial applications Several geometric configurations of electric conductors leading to different mathematical models are carefully derived and analyzed and numerical methods for the solution of the obtained problems are given Related issues such as convergence of the approximations and error estimates are discussed The second part of the monograph presents various coupled problems that involve eddy current or magnetostatic problems in particular magneto hydrodynamic problems and magnetic shaping problems concerning the melt flow of electrically conducting metals induction heating processes inductively coupled plasmas and ferromagnetic screening modeling The presentation of each model comes with numerical illustration from industrial applications

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