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and J.F. Rodrigues (Editors)

Free boundary problems: theory and applications



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Research Notes In Mathematics Free Boundary Problems Applications And Theory Volume Iv

Irina Mitrea, Marius Mitrea



Research Notes In Mathematics Free Boundary Problems Applications And Theory Volume Iv:

Free Boundary Problems A. Bossavit, M. Fremond, 1985 **Geometric Measure Theory and Free Boundary Problems** Guido De Philippis, Xavier Ros-Oton, Georg S. Weiss, 2021-03-23 This volume covers contemporary aspects of geometric measure theory with a focus on applications to partial differential equations free boundary problems and water waves It is based on lectures given at the 2019 CIME summer school Geometric Measure Theory and Applications From Geometric Analysis to Free Boundary Problems which took place in Cetraro Italy under the scientific direction of Matteo Focardi and Emanuele Spadaro Providing a description of the structure of measures satisfying certain differential constraints and covering regularity theory for Bernoulli type free boundary problems and water waves as well as regularity theory for the obstacle problems and the developments leading to applications to the Stefan problem this volume will be of interest to students and researchers in mathematical analysis and its applications *Navier—Stokes Equations and Related Nonlinear Problems* Adélia Sequeira, 2013-11-11 This volume contains the Proceedings of the Third International Conference on Navier Stokes Equations and Related Nonlinear Problems The conference was held in Funchal Madeira Portugal on May 21 27 1994 In addition to the editor the organizers were Carlos Albuquerque FC University of Lisbon Casimiro Silva University of Madeira and Juha Videman 1ST Technical University of Lisbon This meeting following two other successful events of similar type held in Thurnau Germany in 1992 and in Cetraro Italy in 1993 brought together to the majestically beautiful island of Madeira more than 60 specialists from all around the world of which about two thirds were invited lecturers The main interest of the meeting was focused on the mathematical analysis of nonlinear phenomena in fluid mechanics During the conference we noticed that this area seems to provide today more than ever challenging and increasingly important problems motivating the research of both theoretical and numerical analysts This volume collects 32 articles selected from the invited lectures and contributed papers given during the conference The main topics covered include Flows in Unbounded Domains Flows in Bounded Domains Compressible Fluids Free Boundary Problems Non Newtonian Fluids Related Problems and Numerical Approximations The contributions present original results or new surveys on recent developments giving directions for future research I express my gratitude to all the authors and I am glad to recognize the scientific level and the actual interest of the articles *Free Boundary Problems* Darya Apushkinskaya, 2018-09-20 This book is concerned with several elliptic and parabolic obstacle type problems with a focus on the cases where the free and fixed boundaries meet The results presented complement those found in existing books in the subject which mainly treat regularity properties away from the fixed boundary The topics include optimal regularity analysis of global solutions tangential touch of the free and fixed boundaries as well as Lipschitz and C^1 regularity of the free boundary Special attention is given to local versions of various monotonicity formulas The intended audience includes research mathematicians and advanced graduate students interested in problems with free boundaries **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

Computation and Applied Mathematics, 2002 **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 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

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

The Classical Stefan Problem S.C. Gupta, 2003-10-22 This volume emphasises studies related to classical Stefan problems The term Stefan problem is generally used for heat transfer problems with phase changes such as from the liquid to the solid Stefan problems have some characteristics that are typical of them but certain problems arising in fields such as mathematical physics and engineering also exhibit characteristics similar to them The term classical distinguishes the formulation of these problems from their weak formulation in which the solution need not possess classical derivatives Under suitable assumptions a weak solution could be as good as a classical solution In hyperbolic Stefan problems the characteristic features of Stefan problems are present but unlike in Stefan problems discontinuous solutions are allowed because of the hyperbolic nature of the heat equation The numerical solutions of inverse Stefan problems and the analysis of direct Stefan problems are so integrated that it is difficult to discuss one without referring to the other So no strict line of demarcation can be identified between a classical Stefan problem and other similar problems On the other hand including every related problem in the domain of classical Stefan problem would require several volumes for their description A suitable compromise has to be made The basic concepts modelling and analysis of the classical Stefan problems have been extensively investigated and there seems to be a need to report the results at one place This book attempts to answer that need

Free Boundary Problems A. Bossavit, M. Fremond, 1985 Recent Advances in PDEs: Analysis, Numerics and Control Anna Doubova, Manuel González-Burgos, Francisco Guillén-González, Mercedes Marín

Beltrán,2018-11-02 This book contains the main results of the talks given at the workshop Recent Advances in PDEs Analysis Numerics and Control which took place in Sevilla Spain on January 25 27 2017 The work comprises 12 contributions given by high level researchers in the partial differential equation PDE area to celebrate the 60th anniversary of Enrique Fernández de la Fuente University of Sevilla The main topics covered here are Control and inverse problems Analysis of Fluid mechanics and Numerical Analysis The work is devoted to researchers in these fields **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 Duin 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 **Proceedings of the 4th European Conference, Elliptic and Parabolic**

Problems Josef Bemelmans,2002 This book provides an overview of the state of the art in important subjects including besides elliptic and parabolic issues geometry free boundary problems fluid mechanics evolution problems in general calculus of variations homogenization control modeling and numerical analysis **Non-Smooth Thermomechanics** Michel

Fremond,2013-03-14 Based on practical problems in mechanical engineering the author develops in this book the fundamental concepts of non smooth thermomechanics and introduces the necessary background material needed to deal with mechanics involving discontinuities and non smooth constraints From this point powerful methods for the applied mathematician and the mechanical engineer are derived and applied to numerous cases including collisions of deformable and non deformable solids shape memory alloys damage of materials soil freezing supercooling and solid liquid phase changes to name but a few This book will be of great value to both the researcher and practitioner but it can also be used as an advanced text for students in civil and mechanical engineering 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 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 [ICIAM 91](#) Robert E. O'Malley,1992-01-01 Proceedings Computer Arithmetic Algebra OOP **Applied Computational Economics and Finance** Mario J. Miranda,Paul L. Fackler,2004-08-20 This book presents a variety of computational methods used to solve dynamic problems in economics and finance It emphasizes practical numerical methods rather than mathematical proofs and focuses on techniques that apply directly to economic analyses The examples are drawn from a wide range of subspecialties of economics and finance with particular emphasis on problems in agricultural and resource economics macroeconomics and finance The book also provides an extensive Web site library of computer utilities and demonstration programs The book is divided into two parts The first part develops basic numerical methods including linear and nonlinear equation methods complementarity methods finite dimensional optimization numerical integration and differentiation and function approximation The second part presents methods for solving dynamic stochastic models in economics and finance including dynamic programming rational expectations and arbitrage pricing models in discrete and continuous time The book uses MATLAB to illustrate the algorithms and includes a utilities toolbox to help readers develop their own computational economics applications *Multi-Layer Potentials and Boundary Problems* Irina Mitrea,Marius Mitrea,2013-01-05 Many phenomena in engineering and mathematical physics can be modeled by means of boundary value problems for a certain elliptic differential operator in a given domain When the differential operator under discussion is of second order a variety of tools are available for dealing with such problems including boundary integral methods variational methods harmonic measure techniques and methods based on classical harmonic analysis When the differential operator is of higher order as is the case e g with anisotropic plate bending when one deals with a fourth order operator only a few options could be successfully implemented In the 1970s Alberto Calder n one of the founders of the modern theory of Singular Integral Operators advocated the use of layer potentials for the

treatment of higher order elliptic boundary value problems The present monograph represents the first systematic treatment based on this approach This research monograph lays for the first time the mathematical foundation aimed at solving boundary value problems for higher order elliptic operators in non smooth domains using the layer potential method and addresses a comprehensive range of topics dealing with elliptic boundary value problems in non smooth domains including layer potentials jump relations non tangential maximal function estimates multi traces and extensions boundary value problems with data in Whitney Lebesgue spaces Whitney Besov spaces Whitney Sobolev based Lebesgue spaces Whitney Triebel Lizorkin spaces Whitney Sobolev based Hardy spaces Whitney BMO and Whitney VMO spaces **More Progresses in Analysis** ,2009-05-12 International ISAAC International Society for Analysis its Applications and Computation Congresses have been held every second year since 1997 The proceedings report on a regular basis on the progresses of the field in recent years where the most active areas in analysis its applications and computation are covered Plenary lectures also highlight recent results This volume concentrates mainly on partial differential equations but also includes function spaces operator theory integral transforms and equations potential theory complex analysis and generalizations stochastic analysis inverse problems homogenization continuum mechanics mathematical biology and medicine With over 350 participants attending the congress the book comprises 140 papers from 211 authors The volume also serves for transferring personal information about the ISAAC and its members This volume includes citations for O Besov V Burenkov and R P Gilbert on the occasion of their anniversaries

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