Jan Prüss
Gieri Simonett

Moving Interfaces and Quasilinear Parabolic Evolution Equations

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Moving Interfaces And Quasilinear Parabolic Evolution Equations Monographs In Mathematics

Tuomas Hytönen,Jan van Neerven,Mark Veraar,Lutz Weis

Moving Interfaces And Quasilinear Parabolic Evolution Equations Monographs In Mathematics:

Moving Interfaces and Quasilinear Parabolic Evolution Equations Jan Prüss,Gieri Simonett,2016-07-25 In this monograph the authors develop a comprehensive approach for the mathematical analysis of a wide array of problems involving moving interfaces It includes an in depth study of abstract quasilinear parabolic evolution equations elliptic and parabolic boundary value problems transmission problems one and two phase Stokes problems and the equations of incompressible viscous one and two phase fluid flows The theory of maximal regularity an essential element is also fully developed The authors present a modern approach based on powerful tools in classical analysis functional analysis and vector valued harmonic analysis The theory is applied to problems in two phase fluid dynamics and phase transitions one phase generalized Newtonian fluids nematic liquid crystal flows Maxwell Stefan diffusion and a variety of geometric evolution equations The book also includes a discussion of the underlying physical and thermodynamic principles governing the equations of fluid flows and phase transitions and an exposition of the geometry of moving hypersurfaces **Mathematical Analysis of the Navier-Stokes Equations** Matthias Hieber,James C. Robinson,Yoshihiro Shibata,2020-04-28 This book collects together a unique set of articles dedicated to several fundamental aspects of the Navier Stokes equations As is well known understanding the mathematical properties of these equations along with their physical interpretation constitutes one of the most challenging questions of applied mathematics Indeed the Navier Stokes equations feature among the Clay Mathematics Institute s seven Millennium Prize Problems existence of global in time regular solutions corresponding to initial data of unrestricted magnitude The text comprises three extensive contributions covering the following topics 1 Operator Valued H calculus R boundedness Fourier multipliers and maximal Lp regularity theory for a large abstract class of quasi linear evolution problems with applications to Navier Stokes equations and other fluid model equations 2 Classical existence uniqueness and regularity theorems of solutions to the Navier Stokes initial value problem along with space time partial regularity and investigation of the smoothness of the Lagrangean flow map and 3 A complete mathematical theory of R boundedness and maximal regularity with applications to free boundary problems for the Navier Stokes equations with and without surface tension Offering a general mathematical framework that could be used to study fluid problems and more generally a wide class of abstract evolution equations this volume is aimed at graduate students and researchers who want to become acquainted with fundamental problems related to the Navier Stokes equations Mathematical Analysis in Fluid Mechanics Raphaël Danchin,Reinhard Farwig,Jiří Neustupa,Patrick Penel,2018-06-26 This volume contains the proceedings of the International Conference on Vorticity Rotation and Symmetry IV Complex Fluids and the Issue of Regularity held from May 8 12 2017 in Luminy Marseille France The papers cover topics in mathematical fluid mechanics ranging from the classical regularity issue for solutions of the 3D Navier Stokes system to compressible and non Newtonian fluids MHD flows and mixtures of fluids Topics of different kinds of solutions boundary conditions and interfaces are also discussed **Geometric**

Partial Differential Equations - Part I ,2020-01-14 Besides their intrinsic mathematical interest geometric partial differential equations PDEs are ubiquitous in many scientific engineering and industrial applications They represent an intellectual challenge and have received a great deal of attention recently The purpose of this volume is to provide a missing reference consisting of self contained and comprehensive presentations It includes basic ideas analysis and applications of state of the art fundamental algorithms for the approximation of geometric PDEs together with their impacts in a variety of fields within mathematics science and engineering About every aspect of computational geometric PDEs is discussed in this and a companion volume Topics in this volume include stationary and time dependent surface PDEs for geometric flows large deformations of nonlinearly geometric plates and rods level set and phase field methods and applications free boundary problems discrete Riemannian calculus and morphing fully nonlinear PDEs including Monge Ampere equations and PDE constrained optimization Each chapter is a complete essay at the research level but accessible to junior researchers and students The intent is to provide a comprehensive description of algorithms and their analysis for a specific geometric PDE class starting from basic concepts and concluding with interesting applications Each chapter is thus useful as an introduction to a research area as well as a teaching resource and provides numerous pointers to the literature for further reading The authors of each chapter are world leaders in their field of expertise and skillful writers This book is thus meant to provide an invaluable readable and enjoyable account of computational geometric PDEs   Interfaces: Modeling, Analysis, Numerics Eberhard Bänsch,Klaus Deckelnick,Harald Garcke,Paola Pozzi,2023-10-10 These lecture notes are dedicated to the mathematical modelling analysis and computation of interfaces and free boundary problems appearing in geometry and in various applications ranging from crystal growth tumour growth biological membranes to porous media two phase flows fluid structure interactions and shape optimization We first give an introduction to classical methods from differential geometry and systematically derive the governing equations from physical principles Then we will analyse parametric approaches to interface evolution problems and derive numerical methods which will be thoroughly analysed In addition implicit descriptions of interfaces such as phase field and level set methods will be analysed Finally we will discuss numerical methods for complex interface evolutions and will focus on two phase flow problems as an important example of such evolutions   *Non-resonant Solutions in Hyperbolic-Parabolic Systems with Periodic Forcing* Aday Celik,2020-09-30 This thesis is a mathematical investigation of damping effects in hyperbolic systems In the first part two models from nonlinear acoustics are studied Existence of time periodic solutions to the Blackstock Crighton equation and the Kuznetsov equation are established for time periodic data sufficiently restricted in size This leads to the conclusion that the dissipative effects in these models are sufficient to avoid resonance In the second part the interaction of a viscous fluid with an elastic structure is studied A periodic cell structure filled with a viscous fluid interacting with a deformable boundary of the cell is considered under time periodic forcing The motion of the fluid is governed by the Navier Stokes equations and the deformable boundary

is governed by the plate equation It is shown that the damping mechanism induced by the viscous fluid is sufficient to avoid resonance in the elastic structure   *Nonlinear Partial Differential Equations for Future Applications* Shigeaki Koike,Hideo Kozono,Takayoshi Ogawa,Shigeru Sakaguchi,2021-04-16 This volume features selected original and peer reviewed papers on topics from a series of workshops on Nonlinear Partial Differential Equations for Future Applications that were held in 2017 at Tohoku University in Japan The contributions address an abstract maximal regularity with applications to parabolic equations stability and bifurcation for viscous compressible Navier Stokes equations new estimates for a compressible Gross Pitaevskii Navier Stokes system singular limits for the Keller Segel system in critical spaces the dynamic programming principle for stochastic optimal control two kinds of regularity machineries for elliptic obstacle problems and new insight on topology of nodal sets of high energy eigenfunctions of the Laplacian This book aims to exhibit various theories and methods that appear in the study of nonlinear partial differential equations   *Fractional Differential Equations* Anatoly Kochubei,Yuri Luchko,2019-02-19 This multi volume handbook is the most up to date and comprehensive reference work in the field of fractional calculus and its numerous applications This second volume collects authoritative chapters covering the mathematical theory of fractional calculus including ordinary and partial differential equations of fractional order inverse problems and evolution equations   *Analysis in Banach Spaces* Tuomas Hytönen,Jan van Neerven,Mark Veraar,Lutz Weis,2023-12-07 This third volume of Analysis in Banach Spaces offers a systematic treatment of Banach space valued singular integrals Fourier transforms and function spaces It further develops and ramifies the theory of functional calculus from Volume II and describes applications of these new notions and tools to the problem of maximal regularity of evolution equations The exposition provides a unified treatment of a large body of results much of which has previously only been available in the form of research papers Some of the more classical topics are presented in a novel way using modern techniques amenable to a vector valued treatment Thanks to its accessible style with complete and detailed proofs this book will be an invaluable reference for researchers interested in functional analysis harmonic analysis and the operator theoretic approach to deterministic and stochastic evolution equations   **Motion of a Drop in an Incompressible Fluid** I. V. Denisova,V. A. Solonnikov,2021-09-20 This mathematical monograph details the authors results on solutions to problems governing the simultaneous motion of two incompressible fluids Featuring a thorough investigation of the unsteady motion of one fluid in another researchers will find this to be a valuable resource when studying non coercive problems to which standard techniques cannot be applied As authorities in the area the authors offer valuable insight into this area of research which they have helped pioneer This volume will offer pathways to further research for those interested in the active field of free boundary problems in fluid mechanics and specifically the two phase problem for the Navier Stokes equations The authors main focus is on the evolution of an isolated mass with and without surface tension on the free interface Using the Lagrange and Hanzawa transformations local well posedness in the H lder and Sobolev Slobodeckij on L2 spaces is proven as

well Global well posedness for small data is also proven as is the well posedness and stability of the motion of two phase fluid in a bounded domain Motion of a Drop in an Incompressible Fluid will appeal to researchers and graduate students working in the fields of mathematical hydrodynamics the analysis of partial differential equations and related topics   Nonlinear Dispersive Waves and Fluids Avy Soffer,2019-03-12 This volume contains the proceedings of the AMS Special Session on Spectral Calculus and Quasilinear Partial Differential Equations and the AMS Special Session on PDE Analysis on Fluid Flows which were held in January 2017 in Atlanta Georgia These two sessions shared the underlying theme of the analysis aspect of evolutionary PDEs and mathematical physics The articles address the latest trends and perspectives in the area of nonlinear dispersive equations and fluid flows The topics mainly focus on using state of the art methods and techniques to investigate problems of depth and richness arising in quantum mechanics general relativity and fluid dynamics   Waves in Flows Tomáš Bodnár,Giovanni P. Galdi,Šárka Nečasová,2021-05-04 This volume explores a range of recent advances in mathematical fluid mechanics covering theoretical topics and numerical methods Chapters are based on the lectures given at a workshop in the summer school Waves in Flows held in Prague from August 27 31 2018 A broad overview of cutting edge research is presented with a focus on mathematical modeling and numerical simulations Readers will find a thorough analysis of numerous state of the art developments presented by leading experts in their respective fields Specific topics covered include Chemorepulsion Compressible Navier Stokes systems Newtonian fluids Fluid structure interactions Waves in Flows The 2018 Prague Sum Workshop Lectures will appeal to post doctoral students and scientists whose work involves fluid mechanics   **Mathematical Physics and Its Interactions** Shuji Machihara,2024-07-03 This publication comprises research papers contributed by the speakers primarily based on their planned talks at the meeting titled Mathematical Physics and Its Interactions initially scheduled for the summer of 2021 in Tokyo Japan It celebrates Tohru Ozawa s 60th birthday and his extensive contributions in many fields The works gathered in this volume explore interactions between mathematical physics various types of partial differential equations PDEs harmonic analysis and applied mathematics They are authored by research leaders in these fields and this selection honors the spirit of the workshop by showcasing cutting edge results and providing a forward looking perspective through discussions of problems with the goal of shaping future research directions Originally planned as an in person gathering this conference had to change its format due to limitations imposed by COVID more precisely to avoid inducing people into unnecessary vaccinations   **Fluids Under Control** Tomáš Bodnár,Giovanni P. Galdi,Šárka Nečasová,2024-03-05 This volume explores state of the art developments in theoretical and applied fluid mechanics with a focus on stabilization and control Chapters are based on lectures given at the summer school Fluids under Control held in Prague from August 23 27 2021 With its accessible and flexible presentation readers will be motivated to deepen their understanding of how mathematics and physics are connected Specific topics covered include Stabilization of the 3D Navier Stokes system Flutter stabilization of flow state systems Turbulence control Design through

analysis Fluids Under Control will appeal to graduate students and researchers in both mathematics and physics Because of the applications presented it will also be of interest to engineers working on environmental and industrial issues **Partial Differential Equations: Waves, Nonlinearities and Nonlocalities** Mats Ehrnström,Helge Holden,Espen R. Jakobsen,2025-08-22 This volume in the renowned Abel Symposia series contains the peer reviewed proceedings of the Abel Symposium 2023 on Partial Differential Equations Waves Nonlinearities and Nonlocalities held at B rdshaug Mansion in Orkanger outside Trondheim Norway June 13 16 2023 Research in nonlinear partial differential equations has been undergoing an intense development with new phenomena modelled by increasingly complicated systems integrating nonlocal effects and with the solution of previously unsolved problems such as the Onsager conjecture Comprising fifteen articles written by leading researchers covering a wide range of topics this book takes readers to the forefront of a highly active subject **Fluids Under Pressure** Tomáš Bodnár,Giovanni P. Galdi,Šárka Nečasová,2020-04-30 This contributed volume is based on talks given at the August 2016 summer school Fluids Under Pressure held in Prague as part of the Prague Sum series Written by experts in their respective fields chapters explore the complex role that pressure plays in physics mathematical modeling and fluid flow analysis Specific topics covered include Oceanic and atmospheric dynamics Incompressible flows Viscous compressible flows Well posedness of the Navier Stokes equations Weak solutions to the Navier Stokes equations Fluids Under Pressure will be a valuable resource for graduate students and researchers studying fluid flow dynamics **Positivity and Noncommutative Analysis** Gerard Buskes,Marcel de Jeu,Peter Dodds,Anton Schep,Fedor Sukochev,Jan van Neerven,Anthony Wickstead,2019-08-09 Capturing the state of the art of the interplay between positivity noncommutative analysis and related areas including partial differential equations harmonic analysis and operator theory this volume was initiated on the occasion of the Delft conference in honour of Ben de Pagter s 65th birthday It will be of interest to researchers in positivity noncommutative analysis and related fields Contributions by Shavkat Ayupov Amine Ben Amor Karim Boulabiar Qingying Bu Gerard Buskes Martijn Caspers Jurie Conradie Garth Dales Marcel de Jeu Peter Dodds Theresa Dodds Julio Flores Jochen Gl ck Jacobus Grobler Wolter Groenevelt Markus Haase Klaas Pieter Hart Francisco Hern ndez Jamel Jaber Rien Kaashoek Turabay Kalandarov Anke Kalauch Arkady Kitover Erik Koelink Karimbergen Kudaybergenov Louis Labuschagne Yongjin Li Nick Lindemulder Emiel Lorist Qi L Miek Messerschmidt Susumu Okada Mehmet Orhon Denis Potapov Werner Ricker Stephan Roberts Pablo Rom n Anton Schep Claud Steyn Fedor Sukochev James Sweeney Guido Sweers Pedro Tradacete Jan Harm van der Walt Onno van Gaans Jan van Neerven Arnoud van Rooij Freek van Schagen Dominic Vella Mark Veraar Anthony Wickstead Marten Wortel Ivan Yaroslavtsev and Dmitriy Zanin *Hokkaido Mathematical Journal* ,2019 *Nonlinear Dynamics and Evolution Equations* Hermann Brunner,Xiao-Qiang Zhao,Xingfu Zou,2006 The papers in this volume reflect a broad spectrum of current research activities on the theory and applications of nonlinear dynamics and evolution equations They are based on lectures given during the International Conference on

Nonlinear Dynamics and Evolution Equations at Memorial University of Newfoundland St John s NL Canada July 6 10 2004 This volume contains thirteen invited and refereed papers Nine of these are survey papers introducing the reader to anddescribing the current state of the art in major areas of dynamical systems ordinary functional and partial differential equations and applications of such equations in the mathematical modelling of various biological and physical phenomena These papers are complemented by four research papers thatexamine particular problems in the theory and applications of dynamical systems Information for our distributors Titles in this series are copublished with the Fields Institute for Research in Mathematical Sciences Toronto Ontario Canada   Functional Analytic Methods for Evolution Equations Giuseppe Da Prato,Peer Christian Kunstmann,Irena Lasiecka,Alessandra Lunardi,Roland Schnaubelt,Lutz Weis,2004-08-30 This book consists of five introductory contributions by leading mathematicians on the functional analytic treatment of evolutions equations In particular the contributions deal with Markov semigroups maximal L p regularity optimal control problems for boundary and point control systems parabolic moving boundary problems and parabolic nonautonomous evolution equations The book is addressed to PhD students young researchers and mathematicians doing research in one of the above topics

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