Elliptic Boundary Value Problems in Domains with Point Singularities

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Elliptic Boundary Value Problems In Domains With Point Singularities:

    Elliptic Boundary Value Problems in Domains with Point Singularities Vladimir Kozlov,V. G. Maz︠i︡a,Jürgen Rossmann,1997 This monograph systematically treats a theory of elliptic boundary value problems in domains without singularities and in domains with conical or cuspidal points This exposition is self contained and a priori requires only basic knowledge of functional analysis Restricting to boundary value problems formed by differential operators and avoiding the use of pseudo differential operators makes the book accessible for a wider readership The authors concentrate on fundamental results of the theory estimates for solutions in different function spaces the Fredholm property of the operator of the boundary value problem regularity assertions and asymptotic formulas for the solutions near singular points A special feature of the book is that the solutions of the boundary value problems are considered in Sobolev spaces of both positive and negative orders Results of the general theory are illustrated by concrete examples The book may be used for courses in partial differential equations   **Elliptic Equations in Polyhedral Domains** V. G. Maz_i_a,Jürgen Rossmann,2010-04-22 This is the first monograph which systematically treats elliptic boundary value problems in domains of polyhedral type The authors mainly describe their own recent results focusing on the Dirichlet problem for linear strongly elliptic systems of arbitrary order Neumann and mixed boundary value problems for second order systems and on boundary value problems for the stationary Stokes and Navier Stokes systems A feature of the book is the systematic use of Green s matrices Using estimates for the elements of these matrices the authors obtain solvability and regularity theorems for the solutions in weighted and non weighted Sobolev and Holder spaces Some classical problems of mathematical physics Laplace and biharmonic equations Lame system are considered as examples Furthermore the book contains maximum modulus estimates for the solutions and their derivatives The exposition is self contained and an introductory chapter provides background material on the theory of elliptic boundary value problems in domains with smooth boundaries and in domains with conical points The book is destined for graduate students and researchers working in elliptic partial differential equations and applications   **Asymptotic Theory of Dynamic Boundary Value Problems in Irregular Domains** Dmitrii Korikov,Boris Plamenevskii,Oleg Sarafanov,2021-04-01 This book considers dynamic boundary value problems in domains with singularities of two types The first type consists of edges of various dimensions on the boundary in particular polygons cones lenses polyhedra are domains of this type Singularities of the second type are singularly perturbed edges such as smoothed corners and edges and small holes A domain with singularities of such type depends on a small parameter whereas the boundary of the limit domain as the parameter tends to zero has usual edges i e singularities of the first type In the transition from the limit domain to the perturbed one the boundary near a conical point or an edge becomes smooth isolated singular points become small cavities and so on In an irregular domain with such singularities problems of elastodynamics electrodynamics and some other dynamic problems are discussed The purpose is to describe the asymptotics of solutions near singularities of

the boundary The presented results and methods have a wide range of applications in mathematical physics and engineering The book is addressed to specialists in mathematical physics partial differential equations and asymptotic methods

Multiple-Scale Analysis of Boundary-Value Problems in Thick Multi-Level Junctions of Type 3:2:2 Taras Mel'nyk,Dmytro Sadovyi,2020-01-03 This book presents asymptotic methods for boundary value problems linear and semilinear elliptic and parabolic in so called thick multi level junctions These complicated structures appear in a large variety of applications A concise and readable introduction to the topic the book provides a full review of the literature as well as a presentation of results of the authors including the homogenization of boundary value problems in thick multi level junctions with non Lipschitz boundaries and the construction of approximations for solutions to semilinear problems Including end of chapter conclusions discussing the results and their physical interpretations this book will be of interest to researchers and graduate students in asymptotic analysis and applied mathematics as well as to physicists chemists and engineers interested in processes such as heat and mass transfer hp-Finite Element Methods for Singular Perturbations Jens M. Melenk,2004-10-19 Many partial differential equations arising in practice are parameter dependent problems that are of singularly perturbed type Prominent examples include plate and shell models for small thickness in solid mechanics convection diffusion problems in fluid mechanics and equations arising in semi conductor device modelling Common features of these problems are layers and in the case of non smooth geometries corner singularities Mesh design principles for the efficient approximation of both features by the hp version of the finite element method hp FEM are proposed in this volume For a class of singularly perturbed problems on polygonal domains robust exponential convergence of the hp FEM based on these mesh design principles is established rigorously **Weighted Morrey Spaces** Marcus Laurel,Marius Mitrea,2024-09-02 This monograph is a testament to the potency of the method of singular integrals of layer potential type in solving boundary value problems for weakly elliptic systems in the setting of Muckenhoupt weighted Morrey spaces and their pre duals A functional analytic framework for Muckenhoupt weighted Morrey spaces in the rough setting of Ahlfors regular sets is built from the ground up and subsequently supports a Calder n Zygmund theory on this brand of Morrey space in the optimal geometric environment of uniformly rectifiable sets A thorough duality theory for such Morrey spaces is also developed and ushers in a never before seen Calder n Zygmund theory for Muckenhoupt weighted Block spaces Both weighted Morrey and Block spaces are also considered through the lens of generalized Banach function spaces and ultimately a variety of boundary value problems are formulated and solved with boundary data arbitrarily prescribed from either scale of space The fairly self contained nature of this monograph ensures that graduate students researchers and professionals in a variety of fields e g function space theory harmonic analysis and PDE will find this monograph a welcome and valuable addition to the mathematical literature *Density Functional Theory* Eric Cancès,Gero Friesecke,2023-07-18 Density functional theory DFT provides the most widely used models for simulating molecules and materials based on the

fundamental laws of quantum mechanics It plays a central role in a huge spectrum of applications in chemistry physics and materials science Quantum mechanics describes a system of N interacting particles in the physical 3 dimensional space by a partial differential equation in 3N spatial variables The standard numerical methods thus incur an exponential increase of computational effort with N a phenomenon known as the curse of dimensionality in practice these methods already fail beyond N 2 DFT overcomes this problem by 1 reformulating the N body problem involving functions of 3N variables in terms of the density a function of 3 variables 2 approximating it by a pioneering hybrid approach which keeps important ab initio contributions and re models the remainder in a data driven way This book intends to be an accessible yet state of art text on DFT for graduate students and researchers in applied and computational mathematics physics chemistry and materials science It introduces and reviews the main models of DFT covering their derivation and mathematical properties numerical treatment and applications **Around the Research of Vladimir Maz'ya III** Ari Laptev,2009-11-25 This volume reflects the variety of areas where Maz ya s results are fundamental influential and or pioneering New advantages in such areas are presented by world recognized experts and include in particularly Beurling s minimum principle inverse hyperbolic problems degenerate oblique derivative problems the Lp contractivity of the generated semigroups some class of singular integral operators general Cwikel Lieb Rozenblum and Lieb Thirring inequalities domains with rough boundaries integral and supremum operators finite rank Toeplitz operators etc <u>Linear Water Waves</u> Nikolaĭ Germanovich Kuznet︠s︡ov,V. G. Maz'i︠a︡,B. Vainberg,2002-07-11 This book gives a self contained and up to date account of mathematical results in the linear theory of water waves The study of waves has many applications including the prediction of behavior of floating bodies ships submarines tension leg platforms etc the calculation of wave making resistance in naval architecture and the description of wave patterns over bottom topography in geophysical hydrodynamics The first section deals with time harmonic waves Three linear boundary value problems serve as the approximate mathematical models for these types of water waves The next section uses a plethora of mathematical techniques in the investigation of these three problems The techniques used in the book include integral equations based on Green s functions various inequalities between the kinetic and potential energy and integral identities which are indispensable for proving the uniqueness theorems The so called inverse procedure is applied to constructing examples of non uniqueness usually referred to as trapped nodes **The Maz'ya Anniversary Collection** Jürgen Rossmann,Peter Takac,Günther Wildenhain,2012-12-06 The contributions in this volume are dedicated to Vladimir G Maz ya and are par tially based on talks given at the conference Functional Analysis Partial Differ ential Equations and Applications which took place at the University of Rostock from August 31 to September 4 1998 to honour Prof Maz ya This conference a satellite meeting of the ICM gave an opportunity to many friends and colleagues from all over the world to honour him This academic community is very large The scientific field of Prof Maz ya is impressively broad which is reflected in the variety of contributions included in the volumes Vladimir Maz ya is the author

and co author of many publications see the list of publications at the end of this volume the topics of which extend from functional analysis function theory and numerical analysis to partial differential equations and their broad applications Vladimir G Maz ya provided significant contributions among others to the the ory of Sobolev spaces the capacity theory boundary integral methods qualitative and asymptotic methods of analysis of linear and nonlinear elliptic differential equations the Cauchy problem for elliptic and hyperbolic equations the theory of multipliers in spaces of differentiable functions maximum principles for elliptic and parabolic systems and boundary value problems in domains with piecewise smooth boundaries Surveys on Maz ya s work in different fields of mathematics and areas where he made essential contributions form a major part of the present first volume of The Maz ya Anniversary Collection   Differential Equations with Operator Coefficients Vladimir Kozlov,Vladimir Maz'ya,2013-04-18 The first systematic self contained presentation of a theory of arbitrary order ODEs with unbounded operator coefficients in a Hilbert or Banach space Developed over the last 10 years by the authors it deals with conditions of solvability classes of uniqueness estimates for solutions and asymptotic representations of solutions at infinity   **Asymptotic Analysis of Fields in Multi-structures** Vladimir Kozlov,V. G. Maz'i︠a︡,V. G. Maz︠i︡a,Alexander B. Movchan,1999 This book outlines a powerful new method in analysis which has already been instrumental in solving complicated partial differential equations arising in various areas of engineering It is suitable for those working with partial differential equations and their applications and an undergraduate knowledge of PDE s and functional analysis is assumed   **Programming Projects in C for Students of Engineering, Science, and Mathematics** Rouben Rostamian,2014-09-03 Like a pianist who practices from a book of tudes readers of Programming Projects in C for Students of Engineering Science and Mathematics will learn by doing Written as a tutorial on how to think about organize and implement programs in scientific computing this book achieves its goal through an eclectic and wide ranging collection of projects Each project presents a problem and an algorithm for solving it The reader is guided through implementing the algorithm in C and compiling and testing the results It is not necessary to carry out the projects in sequential order The projects contain suggested algorithms and partially completed programs for implementing them to enable the reader to exercise and develop skills in scientific computing require only a working knowledge of undergraduate multivariable calculus differential equations and linear algebra and are written in platform independent standard C the Unix command line is used to illustrate compilation and execution   Advances in Pseudo-Differential Operators Ryuichi Ashino,Paolo Boggiatto,Man-Wah Wong,2012-12-06 The Fourth Congress of the International Society for Analysis its Applications and Computation ISAAC was held at York University from August 11 2003 to August 16 2003 It was supported by the Academic Initiative Fund of the Faculty of Arts NSERC grants from some members of the Department of Mathematics and Statistics and the Office of the Vice President Academic of York University In spite of two SARS outbreaks in Toronto in 2003 the ISAAC Congress was held as scheduled and was well attended by mathematicians from all over the world There

were nine plenary lectures and seventeen special sessions representing most major themes in analysis Among these were two plenary lectures and a special session on pseudo differential operators organized by Ryuichi Ashino of Osaka Kyoiku University Paolo Boggiatto of Universite di Torino and M W Wong of York University In the summer of 2003 M W Wong had the idea of putting together the lectures on pseudo differential operators in a volume to be published in a series that advocates operator theory and its applications In early August of 2003 when Israel Gohberg of Tel Aviv University was consulted about the possibility of publishing a volume entitled Advances in Pseudo Differential Operators in his series Operator Theory Advances and Applications he replied immediately endorsing the proposal enthusiastically **Sobolev Spaces in Mathematics II** Vladimir Maz'ya,2008-11-26 Sobolev spaces become the established and universal language of partial differential equations and mathematical analysis Among a huge variety of problems where Sobolev spaces are used the following important topics are the focus of this volume boundary value problems in domains with singularities higher order partial differential equations local polynomial approximations inequalities in Sobolev Lorentz spaces function spaces in cellular domains the spectrum of a Schrodinger operator with negative potential and other spectral problems criteria for the complete integration of systems of differential equations with applications to differential geometry some aspects of differential forms on Riemannian manifolds related to Sobolev inequalities Brownian motion on a Cartan Hadamard manifold etc Two short biographical articles on the works of Sobolev in the 1930s and the foundation of Akademgorodok in Siberia supplied with unique archive photos of S Sobolev are included **Around the Research of Vladimir Maz'ya I** Ari Laptev,2009-12-02 The fundamental contributions of Professor Maz ya to the theory of function spaces and especially Sobolev spaces are well known and often play a key role in the study of different aspects of the theory which is demonstrated in particular by presented new results and reviews from world recognized specialists Sobolev type spaces extensions capacities Sobolev inequalities pseudo Poincare inequalities optimal Hardy Sobolev Maz ya inequalities Maz ya s isocapacitary inequalities in a measure metric space setting and many other actual topics are discussed *Topological Derivatives in Shape Optimization* Antonio André Novotny,Jan Sokołowski,2012-12-14 The topological derivative is defined as the first term correction of the asymptotic expansion of a given shape functional with respect to a small parameter that measures the size of singular domain perturbations such as holes inclusions defects source terms and cracks Over the last decade topological asymptotic analysis has become a broad rich and fascinating research area from both theoretical and numerical standpoints It has applications in many different fields such as shape and topology optimization inverse problems imaging processing and mechanical modeling including synthesis and or optimal design of microstructures fracture mechanics sensitivity analysis and damage evolution modeling Since there is no monograph on the subject at present the authors provide here the first account of the theory which combines classical sensitivity analysis in shape optimization with asymptotic analysis by means of compound asymptotic expansions for elliptic boundary value problems This book is intended

for researchers and graduate students in applied mathematics and computational mechanics interested in any aspect of topological asymptotic analysis In particular it can be adopted as a textbook in advanced courses on the subject and shall be useful for readers interested on the mathematical aspects of topological asymptotic analysis as well as on applications of topological derivatives in computation mechanics **Computational Methods for the Atmosphere and the Oceans** Roger Temam,Joe Tribbia,2009-06-16 This book provides a survey of the frontiers of research in the numerical modeling and mathematical analysis used in the study of the atmosphere and oceans The details of the current practices in global atmospheric and ocean models the assimilation of observational data into such models and the numerical techniques used in theoretical analysis of the atmosphere and ocean are among the topics covered Truly interdisciplinary scientific interactions between specialties of atmospheric and ocean sciences and applied and computational mathematics Uses the approach of computational mathematicians applied and numerical analysts and the tools appropriate for unsolved problems in the atmospheric and oceanic sciences Contributions uniquely address central problems and provide a survey of the frontier of research **High-Order Methods for Computational Physics** Timothy J. Barth,Herman Deconinck,2013-03-09 The development of high order accurate numerical discretization techniques for irregular domains and meshes is often cited as one of the remaining chal lenges facing the field of computational fluid dynamics In structural me chanics the advantages of high order finite element approximation are widely recognized This is especially true when high order element approximation is combined with element refinement h p refinement In computational fluid dynamics high order discretization methods are infrequently used in the com putation of compressible fluid flow The hyperbolic nature of the governing equations and the presence of solution discontinuities makes high order ac curacy difficult to achieve Consequently second order accurate methods are still predominately used in industrial applications even though evidence sug gests that high order methods may offer a way to significantly improve the resolution and accuracy for these calculations To address this important topic a special course was jointly organized by the Applied Vehicle Technology Panel of NATO s Research and Technology Organization RTO the von Karman Institute for Fluid Dynamics and the Numerical Aerospace Simulation Division at the NASA Ames Research Cen ter The NATO RTO sponsored course entitled Higher Order Discretization Methods in Computational Fluid Dynamics was held September 14 18 1998 at the von Karman Institute for Fluid Dynamics in Belgium and September 21 25 1998 at the NASA Ames Research Center in the United States **Cusped Shell-Like Structures** George Jaiani,2011-07-31 The book is devoted to an up dated exploratory survey of results concerning elastic cusped shells plates and beams and cusped prismatic shell fluid interaction problems It contains some up to now non published results as well Mathematically the corresponding problems lead to non classical in general boundary value and initial boundary value problems for governing degenerate elliptic and hyperbolic systems in static and dynamical cases respectively Its uses two fundamentally different approaches of investigation 1 to get results for two dimensional and one dimensional problems from

results of the corresponding three dimensional problems and 2 to investigate directly governing degenerate and singular systems of 2D and 1D problems In both the cases it is important to study relation of 2D and 1D problems to 3D problems

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