

Spectral Problems Associated with Corner Singularities of Solutions to Elliptic Equations

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American Mathematical Society

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Spectral Problems Associated With Corner Singularities Of Solutions Of Elliptic Equations:

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Spectral Problems Associated with Corner Singularities of Solutions to Elliptic Equations Vladimir Kozlov, V. G. Maz'ya, Jürgen Rossmann, 2014-06-06 This text focuses on the analysis of eigenvalues and eigenfunctions that describe singularities of solutions to elliptic boundary value problems in domains with corners and edges The authors treat both classical problems of mathematical physics and general elliptic boundary value problems The volume is divided into two parts The first is devoted to the power logarithmic singularities of solutions to classical boundary value problems of mathematical physics The second deals with similar singularities for higher order elliptic equations and systems Chapter 1 collects basic facts concerning operator pencils acting in a pair of Hilbert spaces Related properties of ordinary differential equations with constant operator coefficients are discussed and connections with the theory of general elliptic boundary value problems in domains with conic vertices are outlined New results are presented Chapter 2 treats the Laplace operator as a starting point and a model for the subsequent study of angular and conic singularities of solutions Chapter 3 considers the Dirichlet

boundary condition beginning with the plane case and turning to the space problems Singularities in Elliptic Boundary Value Problems and Elasticity and Their Connection with Failure Initiation Zohar Yosibash, 2011-12-02 This introductory and self contained book gathers as much explicit mathematical results on the linear elastic and heat conduction solutions in the neighborhood of singular points in two dimensional domains and singular edges and vertices in three dimensional domains These are presented in an engineering terminology for practical usage The author treats the mathematical formulations from an engineering viewpoint and presents high order finite element methods for the computation of singular solutions in isotropic and anisotropic materials and multi material interfaces The proper interpretation of the results in engineering practice is advocated so that the computed data can be correlated to experimental observations The book is divided into fourteen chapters each containing several sections Most of it the first nine Chapters addresses two dimensional domains where only singular points exist The solution in a vicinity of these points admits an asymptotic expansion composed of eigenpairs and associated generalized flux stress intensity factors GFIFs GSIFs which are being computed analytically when possible or by finite element methods otherwise Singular points associated with weakly coupled thermoelasticity in the vicinity of singularities are also addressed and thermal GSIFs are computed The computed data is important in engineering practice for predicting failure initiation in brittle material on a daily basis Several failure laws for two dimensional domains with V notches are presented and their validity is examined by comparison to experimental observations A sufficient simple and reliable condition for predicting failure initiation crack formation in micron level electronic devices involving singular points is still a topic of active research and interest and is addressed herein Explicit singular solutions in the vicinity of vertices and edges in three dimensional domains are provided in the remaining five chapters New methods for the computation of generalized edge flux stress intensity functions along singular edges are presented and demonstrated by several example problems from the field of fracture mechanics including anisotropic domains and bimaterial interfaces Circular edges are also presented and the author concludes with some remarks on open questions This well illustrated book will appeal to both applied mathematicians and engineers working in the field of fracture mechanics and singularities

Asymptotic Formulae in Spectral Geometry Peter B. Gilkey, 2003-12-17 A great deal of progress has been made recently in the field of asymptotic formulas that arise in the theory of Dirac and Laplace type operators Asymptotic Formulae in Spectral Geometry collects these results and computations into one book Written by a leading pioneer in the field it focuses on the functorial and special cases methods of computing asymptotic heat trace and heat content coefficients in the heat equation It incorporates the work of many authors into the presentation and includes a complete bibliography that serves as a roadmap to the literature on the subject Geometers mathematical physicists and analysts alike will undoubtedly find this book to be the definitive book on the subject Elliptic Equations in Polyhedral Domains V. G. Maz'ya, 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 Lamé 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

Operads in Algebra, Topology and Physics Martin Markl, Steven Shnider, James D.

Stasheff, 2002 Operads are mathematical devices which describe algebraic structures of many varieties and in various categories From their beginnings in the 1960s they have developed to encompass such areas as combinatorics knot theory moduli spaces string field theory and deformation quantization

Traces of Hecke Operators Andrew Knightly, Charles Li, 2006

The Fourier coefficients of modular forms are of widespread interest as an important source of arithmetic information In many cases these coefficients can be recovered from explicit knowledge of the traces of Hecke operators The original trace formula for Hecke operators was given by Selberg in 1956 Many improvements were made in subsequent years notably by Eichler and Hijikata This book provides a comprehensive modern treatment of the Eichler Selberg Hijikata trace formula for the traces of Hecke operators on spaces of holomorphic cusp forms of weight $k \geq 2$ for congruence subgroups of $\mathrm{SL}(2, \mathbb{Z})$ The first half of the text brings together the background from number theory and representation theory required for the computation This includes detailed discussions of modular forms Hecke operators adèles and ideles structure theory for $\mathrm{GL}(2, \mathbb{A})$ strong approximation integration on locally compact groups the Poisson summation formula adelic zeta functions basic representation theory for locally compact groups the unitary representations of $\mathrm{GL}(2, \mathbb{R})$ and the connection between classical cusp forms and their adelic counterparts on $\mathrm{GL}(2, \mathbb{A})$ The second half begins with a full development of the geometric side of the Arthur Selberg trace formula for the group $\mathrm{GL}(2, \mathbb{A})$ This leads to an expression for the trace of a Hecke operator which is then computed explicitly The exposition is virtually self contained with complete references for the occasional use of auxiliary results The book concludes with several applications of the final formula

Isometric

Embedding of Riemannian Manifolds in Euclidean Spaces Qing Han, Jia-Xing Hong, Jiaying Hong, 2006

The question of the existence of isometric embeddings of Riemannian manifolds in Euclidean space is already more than a century old This book presents in a systematic way results both local and global and in arbitrary dimension but with a focus on the isometric

embedding of surfaces in $\mathbb{R}^3$ The emphasis is on those PDE techniques which are essential to the most important results of the last century The classic results in this book include the Janet Cartan Theorem Nirenberg's solution of the Weyl problem and Nash's Embedding Theorem with a simplified proof by Gunther The book also includes the main results from the past twenty years both local and global on the isometric embedding of surfaces in Euclidean 3 space The work will be indispensable to researchers in the area Moreover the authors integrate the results and techniques into a unified whole providing a good entry point into the area for advanced graduate students or anyone interested in this subject The authors avoid what is technically complicated Background knowledge is kept to an essential minimum a one semester course in differential geometry and a one year course in partial differential equations

Braid and Knot Theory in Dimension

Four Seiichi Kamada, 2002 Braid theory and knot theory are related via two famous results due to Alexander and Markov Alexander's theorem states that any knot or link can be put into braid form Markov's theorem gives necessary and sufficient conditions to conclude that two braids represent the same knot or link Thus one can use braid theory to study knot theory and vice versa In this book the author generalizes braid theory to dimension four He develops the theory of surface braids and applies it to study surface links In particular the generalized Alexander and Markov theorems in dimension four are given This book is the first to contain a complete proof of the generalized Markov theorem Surface links are studied via the motion picture method and some important techniques of this method are studied For surface braids various methods to describe them are introduced and developed the motion picture method the chart description the braid monodromy and the braid system These tools are fundamental to understanding and computing invariants of surface braids and surface links Included is a table of knotted surfaces with a computation of Alexander polynomials Braid techniques are extended to represent link homotopy classes The book is geared toward a wide audience from graduate students to specialists It would make a suitable text for a graduate course and a valuable resource for researchers

Large Deviations for Stochastic Processes

Jin Feng, Thomas G. Kurtz, 2015-02-03 The book is devoted to the results on large deviations for a class of stochastic processes Following an introduction and overview the material is presented in three parts Part 1 gives necessary and sufficient conditions for exponential tightness that are analogous to conditions for tightness in the theory of weak convergence Part 2 focuses on Markov processes in metric spaces For a sequence of such processes convergence of Fleming's logarithmically transformed nonlinear semigroups is shown to imply the large deviation principle in a manner analogous to the use of convergence of linear semigroups in weak convergence Viscosity solution methods provide applicable conditions for the necessary convergence Part 3 discusses methods for verifying the comparison principle for viscosity solutions and applies the general theory to obtain a variety of new and known results on large deviations for Markov processes In examples concerning infinite dimensional state spaces new comparison principles are derived for a class of Hamilton Jacobi equations in Hilbert spaces and in spaces of probability measures

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