

Qi Min-you and L. Rodino

General Theory of Partial Differential Equations and Microlocal Analysis



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Spectral Theory, Microlocal Analysis, Singular Manifolds Michael Demuth, 1997 Microlocal Analysis and Spectral **Theory** Luigi Rodino, 2012-12-06 The NATO Advanced Study Institute Microlocal Analysis and Spectral Theory was held in Tuscany Italy at Castelyecchio Pascoli in the district of Lucca hosted by the international vacation center 11 Ciocco from September 23 to October 3 1996 The Institute recorded the considerable progress realized recently in the field of Microlocal Analysis In a broad sense Microlocal Analysis is the modern version of the classical Fourier technique in solving partial differential equa tions where now the localization proceeding takes place with respect to the dual variables too Precisely through the tools of pseudo differential operators wave front sets and Fourier integral operators the general theory of the lin ear partial differential equations is now reaching a mature form in the frame of Schwartz distributions or other generalized functions At the same time Microlocal Analysis has grown up into a definite and independent part of Math ematical Analysis with other applications all around Mathematics and Physics one major theme being Spectral Theory for Schrodinger equation Nonlinear Hyperbolic Equations, Spectral Theory, and Wavelet Transformations Sergio in Ouantum Mechanics Albeverio, Michael Demuth, Elmar Schrohe, Bert-Wolfgang Schulze, 2012-12-06 This volume focuses on recent developments in non linear and hyperbolic equations It will be a most valuable resource for researchers in applied mathematics the theory of wavelets and in mathematical and theoretical physics Nine up to date contributions have been written on invitation by experts in the respective fields The book is the third volume of the subseries Advances in Partial Differential Equations

Spectral Theory, Mathematical System Theory, Evolution Equations, Differential and Difference Equations Wolfgang Arendt, Joseph A. Ball, Jussi Behrndt, Karl-Heinz Förster, Volker Mehrmann, Carsten Trunk, 2012-06-15 The present volume contains a collection of original research articles and expository contributions on recent developments in operator theory and its multifaceted applications They cover a wide range of themes from the IWOTA 2010 conference held at the TU Berlin Germany including spectral theory function spaces mathematical system theory evolution equations and semigroups and differential and difference operators. The book encompasses new trends and various modern topics in operator theory and serves as a useful source of information to mathematicians scientists and engineers The Ubiquitous Heat Kernel Jay Jorgenson, 2006 The aim of this volume is to bring together research ideas from various fields of mathematics which utilize the heat kernel or heat kernel techniques in their research The intention of this collection of papers is to broaden productive communication across mathematical sub disciplines and to provide a vehicle which would allow experts in one field to initiate research with individuals in another field as well as to give non experts a resource which can facilitate expanding theirresearch and connecting with others Parabolicity, Volterra Calculus, and Conical Singularities Sergio Albeverio, Michael Demuth, Elmar Schrohe, Bert-Wolfgang Schulze, 2012-12-06 Partial differential equations constitute an integral part of mathematics They lie at the interface of areas as diverse as differential geometry functional analysis or the

theory of Lie groups and have numerous applications in the applied sciences A wealth of methods has been devised for their analysis Over the past decades operator algebras in connection with ideas and structures from geometry topology and theoretical physics have contributed a large variety of particularly useful tools One typical example is the analysis on singular configurations where elliptic equations have been studied successfully within the framework of operator algebras with symbolic structures adapted to the geometry of the underlying space More recently these techniques have proven to be useful also for studying parabolic and hyperbolic equations Moreover it turned out that many seemingly smooth noncompact situations can be handled with the ideas from singular analysis. The three papers at the beginning of this volume highlight this aspect They deal with parabolic equations a topic relevant for many applications. The first article prepares the ground by presenting a calculus for pseudo differential operators with an anisotropic analytic parameter. In the subsequent paper an algebra of Mellin operators on the infinite space time cylinder is constructed It is shown how timelike infinity can be treated as a conical singularity Geometry, Analysis & Applications, Procs Of The Intl Conf Ram Shankar Pathak, 2001-05-23 Geometrical concepts play a significant role in the analysis of physical systems Apart from the intrinsic interest the knowledge of differentiable manifolds has become useful even mandatory in an ever increasing number of areas of mathematics and its applications Many results concepts in analysis find their most natural generalized setting in manifold theory An interrelation of geometry and analysis can be found in this volume The book presents original research besides a few survey articles by eminent experts from all over the world on current trends of research in differential and algebraic geometry classical and modern analysis including the theory of distributions linear and nonlinear partial differential equations and wavelets Elliptic Mixed, Transmission and Singular Crack Problems Gohar Harutyunyan, Bert-Wolfgang Schulze, 2007 Mixed transmission or crack problems belong to the analysis of boundary value problems on manifolds with singularities The Zaremba problem with a jump between Dirichlet and Neumann conditions along an interface on the boundary is a classical example The central theme of this book is to study mixed problems in standard Sobolev spaces as well as in weighted edge spaces where the interfaces are interpreted as edges Parametrices and regularity of solutions are obtained within a systematic calculus of boundary value problems on manifolds with conical or edge singularities This calculus allows singularities on the interface and homotopies between mixed and crack problems Additional edge conditions are computed in terms of relative index results In a detailed final chapter the intuitive ideas of the approach are illustrated and there is a discussion of future challenges A special feature of the text is the inclusion of many worked out examples which help the reader to appreciate the scope of the theory and to treat new cases of practical interest This book is addressed to mathematicians and physicists interested in models with singularities associated boundary value problems and their solvability strategies based on pseudo differential operators. The material is also useful for students in higher semesters and young researchers as well as for experienced specialists working in analysis on manifolds with

geometric singularities the applications of index theory and spectral theory operator algebras with symbolic structures quantisation and asymptotic analysis Differential Equations on Singular Manifolds Bert-Wolfgang Schulze, Boris Sternin, Viktor Evgen'evich Shatalov, 1998 In the book new methods in the theory of differential equations on manifolds with singularities are presented The semiclassical theory in quantum mechanics is employed adapted to operators that are degenerate in a typical way The degeneracies may be induced by singular geometries e g conical or cuspidal ones A large variety of non standard degenerate operators are also discussed The semiclassical approach yields new results and unexpected effects also in classical situations For instance full asymptotic expansions for cuspidal singularities are constructed and nonstationary problems on singular manifolds are treated Moreover finiteness theorems are obtained by using operator algebra methods in a unified framework Finally the method of characteristics for general elliptic equations on manifolds with singularities is developed in the book Mathematical Results in Quantum Mechanics Pavel Exner, Benoit Grébert, 2002 This work contains contributions presented at the conference QMath 8 Mathematical Results in Quantum Mechanics held at Universidad Nacional Autonoma de Mexico in December 2001 The articles cover a wide range of mathematical problems and focus on various aspects of quantum mechanics quantum field theory and nuclear physics Topics vary from spectral properties of the Schrodinger equation of various quantum systems to the analysis of quantum computation algorithms The book should be suitable for graduate students and research mathematicians interested in the mathematical aspects of quantum mechanics

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