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This book concerns the spectral theory of global hypoelliptic pseudodifferential operators in \mathbb{R}^n and the asymptotic estimate of the eigenvalue distribution function $N(\lambda)$ of a hypoelliptic differential operator with polynomial coefficients in \mathbb{R}^n . In the first part of the book the pseudodifferential calculus with respect to a multi-quasi-elliptic weight is introduced. In particular,

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the self-adjoint property is related to the Weyl symbol, while positivity, continuity and compactness in $L^2(\mathbb{R}^n)$ are investigated by the Anti-Wick symbol. In the second part, after an introduction to the spectral theory for global hypoelliptic essentially selfadjoint operators, the asymptotic expansion of $N(I)$ is computed for a multi-quasi-elliptic differential operator with polynomial coefficients. In particular, this is achieved by computing the asymptotic expansion of the Weyl term $V(I)$. In this way some original results are obtained both with respect to a refinement of the asymptotic formula and the class of symbols considered.

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hypoelliptic pseudodifferential operators in \mathbb{R}^n and the asymptotic estimate of the eigenvalue distribution function $N(\lambda)$ of a hypoelliptic differential operator with polynomial coefficients in \mathbb{R}^n . In the first part of the book the pseudodifferential calculus with respect to a multi-quasi-elliptic weight is introduced. In particular, the self-adjoint property is related to the Weyl symbol, while positivity, continuity and compactness in $L^2(\mathbb{R}^n)$ are investigated by the Anti-Wick symbol. In the second part, after an introduction to the spectral theory for global hypoelliptic essentially selfadjoint operators, the asymptotic expansion of $N(\lambda)$ is computed for a multi-quasi-elliptic differential operator with polynomial coefficients. In particular, this is achieved by computing

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There has recently been a renewal of interest in Fokker-Planck operators, motivated by problems in statistical physics, in kinetic equations, and differential geometry. Compared to more standard problems in the spectral theory of partial differential operators, those operators are not self-adjoint and only hypoelliptic. The aim of the analysis is to give, as generally as possible, an accurate qualitative and quantitative description of the exponential return to the thermodynamical

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equilibrium. While exploring and improving recent results in this direction, this volume proposes a review of known techniques on: the hypoellipticity of polynomial of vector fields and its global counterpart, the global Weyl-Hörmander pseudo-differential calculus, the spectral theory of non-self-adjoint operators, the semi-classical analysis of Schrödinger-type operators, the Witten complexes, and the Morse inequalities.

This book presents a global pseudo-differential calculus in Euclidean spaces, which includes SG as well as Shubin classes and their natural generalizations containing Schroedinger operators with non-polynomial

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potentials. This calculus is applied to study global hypoellipticity for several pseudo-differential operators. The book includes classic calculus as a special case. It will be accessible to graduate students and of benefit to researchers in PDEs and mathematical physics.

The NATO Advanced Study Institute "Microlocal Analysis and Spectral Theory" was held in Tuscany (Italy) at Castelvecchio 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,

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Microlocal Analysis is the modern version of the classical Fourier technique in solving partial differential equations, where now the localization proceeding takes place with respect to the dual variables too. Precisely, through the tools of pseudo-differential operators, wavefront sets and Fourier integral operators, the general theory of the linear 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 Mathematical Analysis, with other applications all around Mathematics and Physics, one major theme being Spectral Theory for Schrodinger equation in Quantum

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Mechanics.

This volume consists of the plenary lectures and invited talks in the special session on pseudo-differential operators given at the Fourth Congress of the International Society for Analysis, Applications and Computation (ISAAC) held at York University in Toronto, August 11-16, 2003. The theme is to look at pseudo-differential operators in a very general sense and to report recent advances in a broad spectrum of topics, such as pde, quantization, filters and localization operators, modulation spaces, and numerical experiments in wavelet transforms and orthonormal wavelet bases.

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This volume contains a collection of original papers, associated with the International Conference on Partial Differential Equations, held in Potsdam, July 29 to August 2, 1996. The conference has taken place every year on a high scientific level since 1991; this event is connected with the activities of the Max Planck Research Group for Partial Differential Equations at Potsdam. Outstanding researchers and specialists from Armenia, Belarus, Belgium, Bulgaria, Canada, China, France, Germany, Great Britain, India, Israel, Italy, Japan, Poland, Romania, Russia, Spain, Sweden, Switzerland, Ukraine, and the USA contribute to this volume. The main topics concern recent progress in

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partial differential equations, microlocal analysis, pseudo-differential operators on manifolds with singularities, aspects in differential geometry and index theory, operator theory and operator algebras, stochastic spectral analysis, semigroups, Dirichlet forms, Schrodinger operators, semiclassical analysis, and scattering theory.

Consists of the expository paper based on the 6-hour minicourse given by Professor Bert-Wolfgang Schulze, and sixteen papers based on lectures given at the workshop and on invitations.

This volume is based on lectures given at the workshop

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on pseudo-differential operators held at the Fields Institute from December 11, 2006 to December 15, 2006. The two main themes of the workshop and hence this volume are partial differential equations and time-frequency analysis. The contents of this volume consist of five mini-courses for graduate students and post-docs, and fifteen papers on related topics. Of particular interest in this volume are the mathematical underpinnings, applications and ramifications of the relatively new Stockwell transform, which is a hybrid of the Gabor transform and the wavelet transform. The twenty papers in this volume reflect modern trends in the development of pseudo-differential operators.

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The present volume gathers contributions to the conference Microlocal and Time-Frequency Analysis 2018 (MLTFA18), which was held at Torino University from the 2nd to the 6th of July 2018. The event was organized in honor of Professor Luigi Rodino on the occasion of his 70th birthday. The conference 's focus and the contents of the papers reflect Luigi 's various research interests in the course of his long and extremely prolific career at Torino University.

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