

Contents

Preface	vii
<i>M. de Gosson</i> Phase-Space Weyl Calculus and Global Hypoellipticity of a Class of Degenerate Elliptic Partial Differential Operators	1
<i>T. Gramchev, S. Pilipović and L. Rodino</i> Classes of Degenerate Elliptic Operators in Gelfand–Shilov Spaces	15
<i>A. Dasgupta and M.W. Wong</i> Weyl Transforms and the Heat Equation for the Sub-Laplacian on the Heisenberg Group	33
<i>C. Iwasaki</i> Construction of the Fundamental Solution and Curvature of Manifolds with Boundary	43
<i>J. Abed and B.-W. Schulze</i> Operators with Corner-Degenerate Symbols	67
<i>A. Dasgupta</i> Ellipticity of Fredholm Pseudo-Differential Operators on $L^p(\mathbb{R}^n)$	107
<i>M. Oberguggenberger</i> Hyperbolic Systems with Discontinuous Coefficients: Generalized Wavefront Sets	117
<i>C. Garetto</i> Generalized Fourier Integral Operators on Spaces of Colombeau Type	137
<i>M. Ruzhansky</i> On Local and Global Regularity of Fourier Integral Operators	185
<i>J. Johnsen</i> Type 1,1-Operators Defined by Vanishing Frequency Modulation	201

<i>G. Garello and A. Morando</i> Regularity for Quasi-Elliptic Pseudo-Differential Operators with Symbols in Hölder Classes	247
<i>C. Bouzar and A. Dali</i> Multi-Anisotropic Gevrey Regularity of Hypoelliptic Operators	265
<i>Q. Guo, S. Molahajloo and M.W. Wong</i> Modified Stockwell Transforms and Time-Frequency Analysis	275
<i>Y. Liu</i> Localization Operators for Two-Dimensional Stockwell Transforms ...	287
<i>S. Molahajloo and M.W. Wong</i> Pseudo-Differential Operators on \mathbb{S}^1	297
<i>M. Ruzhansky and V. Turunen</i> On Pseudo-Differential Operators on Group $SU(2)$	307
<i>A. Mohammed and M.W. Wong</i> Sampling and Pseudo-Differential Operators	323