

Pseudo-differential Operators: Analysis, Applications And Computations

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Preface.- Adaptive Wavelet Computations for Inverses of Pseudo-Differential Operators.- Spectral Theory of Pseudo-Differential Operators on S^1 .- A Characterization of Compact Pseudo-Differential Operators on S^1 .- Melin Operator with Asymptotics on Manifolds with Corners.- The Iterative Structure of the Corner Calculus.- Elliptic Equations and Boundary Value Problems in Non-Smooth Domains.- Calculus of Pseudo-Differential Operators and a Local Index of Dirac Operators.- L_p Bounds for a Class of Fractional Powers of Subelliptic Operators.- The Heat Kernel and Green Function of the Generalized Hermite Operator, and the Abstract Cauchy Problem for the Abstract Hermite Operator.- Local Exponential Estimates for h -Pseudo-Differential Operators with Operator-Valued Symbols.- Global Solvability in Functional Spaces for Smooth Nonsingular Vector Fields in the Plane.- Fuchsian Mild Microfunctions with Fractional Order and their Applications to Hyperbolic Equations.- The Continuity of Solutions with respect to a Parameter to Symmetric Hyperbolic Systems.- Generalized Gevrey Ultradistributions and their Microlocal Analysis.- Weyl Rule and Pseudo-Differential Operators for Arbitrary Operators.- Time-Frequency Characterization of Stochastic Differential Equations.- Wigner Representation Associated with Linear Transformations of the Time-Frequency Plane.- Some Remarks on Localization Operators. EAN/ISBN : 9783034800495 Publisher(s): Springer, Berlin, Springer, Basel Discussed keywords: Differenzialgleichungen Format: ePub/PDF Author(s): Rodino, Luigi - Wong, M. W. - Zhu, Hongmei

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