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Nota di contenuto	""Contents""; ""Preface""; ""Part I. Basic Material a€? Reviews""; ""Spectral Problems from Quantum Field Theory""; ""Euclidean Quantum Gravity in Light of Spectral Geometry""; ""Analysis of Invariants Associated with Spectral Boundary Problems for Elliptic Operators""; ""Part II. Spectral Invariants and Asymptotic Expansions""; ""A Resolvent Approach to Traces and Zeta Laurent Expansions""; ""Asymptotic Expansion of the Zetaa€?determinant of an Invertible Laplacian on a Stretched Manifold""; ""Agranovicha€?Dynin Formula for the Zetaa€?determinants of the Neumann and Dirichlet Problems"" ""Part III. Geometric and Topological Problems"" ""The CalderA³n Projector for the Odd Signature Operator and Spectral Flow Calculations in 3a€?dimensional Topology""; ""Cuta€?anda€?paste on Foliated Bundles""; ""1. Introduction""; ""2. Spectral flow""; ""3. Foliated bundles, index classes and the noncommutative spectral flow""; ""4. Index

classes on foliated bundles with boundary"; "5. Fundamental properties of b-index classes"; "6. On the cut-and-paste invariance of the signature index class"; "7. Geometric applications"; "References"
"The Uniqueness of the Spectral Flow on Spaces of Unbounded Self-adjoint Fredholm Operators"; "Variants of Equivariant Seiberg-Witten Floer Homology"; "Part IV. Manifolds with Singularities"; "Dirac Operators, Boundary Value Problems, and the Calculus"; "Guillemin Transform and Toeplitz Representations for Operators on Singular Manifolds"; "Pseudodifferential Operators on Noncompact Manifolds and Analysis on Polyhedral Domains"; "Introduction"; "1. Boundary value problems"; "2. Lie algebras of vector fields"; "3. Melrose's quantization problem"; "4. An application to Fredholm conditions"; "5. Examples"; "6. Spectra"; "References"
