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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"
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