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Boundary   ; Conformal
Anomalies via Canonical Traces
Part IV. Noncommutative Geometry   An Analytic
Approach to Spectral Flow in von Neumann Algebras
; Elliptic Operators on Infinite Graphs   ; A
New Kind of Index Theorem   ; A Note on
Noncommutative Holomorphic and Harmonic Functions on the Unit
Disk   ; Star
Products and Central Extensions
An Elementary Proof of the Homotopy Equivalence between the
Restricted General Linear Group and the Space of Fredholm Operators
Part V. Theoretical Particle String and Membrane Physics and
Hamiltonian Dynamics
; T-DUALITY FOR NON-FREE CIRCLE ACTIONS
A New Spectral Cancellation in Quantum Gravity

Sommario/riassunto	Modern theory of elliptic operators, or simply elliptic theory, has been shaped by the Atiyah-Singer Index Theorem created 40 years ago. Reviewing elliptic theory over a broad range, 32 leading scientists from 14 different countries present recent developments in topology; heat kernel techniques; spectral invariants and cutting and pasting; noncommutative geometry; and theoretical particle, string and membrane physics, and Hamiltonian dynamics. The first of its kind, this volume is ideally suited to graduate students and researchers interested in careful expositions of newly-evolved achievem