



Noncommutative Geometry

By Connes, Alain

Academic Press, 1994. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Noncommutative Spaces and Measure Theory: Heisenberg and the Noncommutative Algebra of Physical Quantities Associated to a Microscopic System. Statistical State of a Macroscopic System and Quantum Statistical Mechanics. Modular Theory and the Classification of Factors. Geometric Examples of von Neumann Algebras: Measure Theory of Noncommutative Spaces. The Index Theorem for Measured Foliations. Topology and K-Theory: C^* -Algebras and their K-Theory. Elementary Examples of Quotient Spaces. The Space X of Penrose Tilings. Duals of Discrete Groups and the Novikov Conjecture. The Tangent Groupoid of a Manifold. Wrong-way Functionality in K-Theory as a Deformation. The Orbit Space of a Group Action. The Leaf Space of a Foliation. The Longitudinal Index Theorem for Foliations. The Analytic Assembly Map and Lie Groups. Cyclic Cohomology and Differential Geometry: Cyclic Cohomology. Examples. Pairing of Cyclic Cohomology with K-Theory. The Higher Index Theorem for Covering Spaces. The Novikov Conjecture for Hyperbolic Groups. Factors of Type III, Cyclic Cohomology and the Godbillon-Vey Invariant. The Transverse Fundamental Class for Foliations and Geometric Corollaries. Quantized Calculus: Quantized Differential Calculus and Cyclic Cohomology. The Dixmier Trace and the Hochschild Class of the Character. Quantized Calculus in One...



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