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Nota di contenuto	Frontmatter -- Preface -- Contents -- Introduction -- Part I: Basics -- 1. Model examples -- 2. Categories and functors -- 3. C-algebras -- Part II: Noncommutative invariants -- 4. Topology -- 5. Algebraic geometry -- 6. Number theory -- Part III: Brief survey of NCG -- 7. Finite geometries -- 8. Continuous geometries -- 9. Connes geometries -- 10. Index theory -- 11. Jones polynomials -- 12. Quantum groups -- 13. Noncommutative algebraic geometry -- 14. Trends in noncommutative geometry -- References -- Index
Sommario/riassunto	This book covers the basics of noncommutative geometry (NCG) and its applications in topology, algebraic geometry, and number theory. The author takes up the practical side of NCG and its value for other areas of mathematics. A brief survey of the main parts of NCG with historical remarks, bibliography, and a list of exercises is included. The presentation is intended for graduate students and researchers with interests in NCG, but will also serve nonexperts in the field. ContentsPart I: BasicsModel examplesCategories and functorsC- algebrasPart II: Noncommutative invariantsTopologyAlgebraic geometryNumber theoryPart III: Brief survey of NCGFinite geometriesContinuous geometriesConnes geometriesIndex theoryJones polynomialsQuantum groupsNoncommutative algebraic geometryTrends in noncommutative geometry

