



Algebraic K-theory and its applications /

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Monografía

Algebraic K-Theory plays an important role in many areas of modern mathematics: most notably algebraic topology, number theory, and algebraic geometry, but even including operator theory. The broad range of these topics has tended to give the subject an aura of inapproachability. This book, based on a course at the University of Maryland in the fall of 1990, is intended to enable graduate students or mathematicians working in other areas not only to learn the basics of algebraic K-Theory, but also to get a feel for its many applications. The required prerequisites are only the standard one-year graduate algebra course and the standard introductory graduate course on algebraic and geometric topology. Many topics from algebraic topology, homological algebra, and algebraic number theory are developed as needed. The final chapter gives a concise introduction to cyclic homology and its interrelationship with K-Theory

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Contenido: 1. K_0 of Rings -- 1. Defining K_0 -- 2. K_0 from idempotents -- 3. K_0 of PIDs and local rings -- 4. K_0 of Dedekind domains -- 5. Relative K_0 and excision -- 6. An application: Swan's Theorem and topological K-theory -- 7. Another application: Euler characteristics and the Wall finiteness obstruction -- 2. K_1 of Rings -- 1. Defining K_1 -- 2. K_1 of division rings and local rings -- 3. 1 of PIDs and Dedekind domains -- 4. Whitehead groups and Whitehead torsion -- 5. Relative K_1 and the exact sequence -- 3. K_0 and K_1 of Categories, Negative K-Theory -- 1. K_0 and K_1 of categories, G_0 and G_1 of rings -- 2. The Grothendieck and Bass-Heller-Swan Theorems -- 3. Negative K-theory -- 4. Milnor's K_2 -- 1. Universal central extensions and H_2 -- 2. The Steinberg group -- 3. Milnor's K_2 -- 4. Applications of K_2 -- 5. The +-Construction and Quillen K-Theory -- 1. An introduction to

classifying spaces -- 2. Quillen's $+$ -construction and its basic properties -- 3. A survey of higher K-theory -- 6. Cyclic homology and its relation to K-Theory -- 1. Basics of cyclic homology -- 2. The Chern character -- 3. Some applications -- References -- Books and Monographs on Related Areas of Algebra, Analysis, Number Theory, and Topology -- Books and Monographs on Algebraic K-Theory -- Specialized References -- Notational Index

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