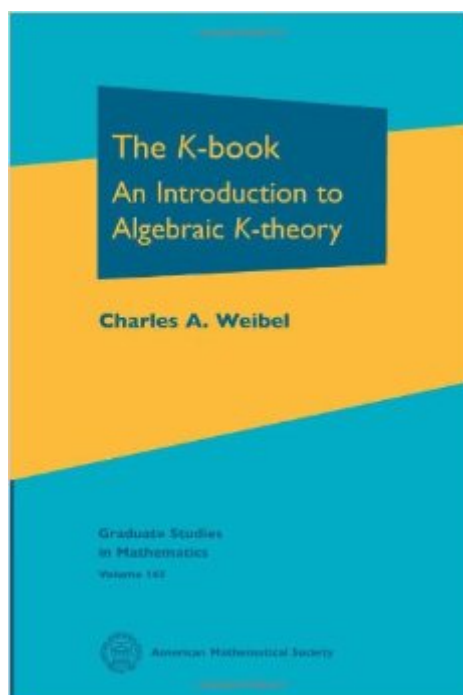


The book was found

# The K-Book: An Introduction To Algebraic K-Theory (Graduate Studies In Mathematics)



## Synopsis

Informally, K-theory is a tool for probing the structure of a mathematical object such as a ring or a topological space in terms of suitably parameterized vector spaces and producing important intrinsic invariants which are useful in the study of algebraic and geometric questions. Algebraic K-theory, which is the main character of this book, deals mainly with studying the structure of rings. However, it turns out that even working in a purely algebraic context, one requires techniques from homotopy theory to construct the higher K-groups and to perform computations. The resulting interplay of algebra, geometry, and topology in K-theory provides a fascinating glimpse of the unity of mathematics. This book is a comprehensive introduction to the subject of algebraic K-theory. It blends classical algebraic techniques for  $K_0$  and  $K_1$  with newer topological techniques for higher K-theory such as homotopy theory, spectra, and cohomological descent. The book takes the reader from the basics of the subject to the state of the art, including the calculation of the higher K-theory of number fields and the relation to the Riemann zeta function.

## Book Information

Series: Graduate Studies in Mathematics

Hardcover: 618 pages

Publisher: American Mathematical Society (June 12, 2013)

Language: English

ISBN-10: 0821891324

ISBN-13: 978-0821891322

Product Dimensions: 1.5 x 7.2 x 10 inches

Shipping Weight: 2.8 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #1,055,820 in Books (See Top 100 in Books) #227 in [Books > Reference > Writing, Research & Publishing Guides > Publishing & Books > Bibliographies & Indexes > Science & Mathematics > Mathematics > Algebra & Trigonometry](#) #2323 in [Books > Textbooks > Science & Mathematics > Mathematics > Algebra & Trigonometry](#) #3020 in [Books > Science & Math > Mathematics > Pure Mathematics > Algebra](#)

[Download to continue reading...](#)

The K-Book: An Introduction to Algebraic K-Theory (Graduate Studies in Mathematics) Number Theory: Algebraic Numbers and Functions (Graduate Studies in Mathematics) Algebraic Geometry (Graduate Texts in Mathematics) Commutative Algebra: with a View Toward Algebraic Geometry (Graduate Texts in Mathematics) Algebraic Geometry: A First Course (Graduate Texts in

Mathematics) (v. 133) Graduate Programs in Business, Education, Information Studies, Law & Social Work 2017 (Peterson's Graduate Programs in Business, Education, Health, Information Studies, Law and Social Work) An Introduction to Knot Theory (Graduate Texts in Mathematics) An Introduction to Banach Space Theory (Graduate Texts in Mathematics) Conics and Cubics: A Concrete Introduction to Algebraic Curves (Undergraduate Texts in Mathematics) Ideals, Varieties, and Algorithms: An Introduction to Computational Algebraic Geometry and Commutative Algebra (Undergraduate Texts in Mathematics) Insider's Guide to Graduate Programs in Clinical and Counseling Psychology (Insider's Guide to Graduate Programs in Clinical & Counseling Psychology) Graph Theory (Graduate Texts in Mathematics) Rational Homotopy Theory (Graduate Texts in Mathematics) Partial Differential Equations (Graduate Studies in Mathematics, Vol. 19) Topics in Optimal Transportation (Graduate Studies in Mathematics, Vol. 58) Toric Varieties (Graduate Studies in Mathematics) Classical Groups and Geometric Algebra (Graduate Studies in Mathematics) A Course in Minimal Surfaces (Graduate Studies in Mathematics) An Epsilon of Room Real Analysis: Pages from Year Three of a Mathematical Blog (Graduate Studies in Mathematics) Fourier Analysis (Graduate Studies in Mathematics)

[Dmca](#)