

Progress in Mathematics

V. Srinivas

# **Algebraic K-Theory**

*Second Edition*

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# Algebraic K Theory Modern Birkhuser Classics

**John Willard Milnor**



## **Algebraic K Theory Modern Birkhuser Classics:**

**Algebraic K-Theory** Vasudevan Srinivas, 2013-11-21      **Algebraic K-Theory** Vasudevan Srinivas, 1995-11-29 Algebraic K Theory has become an increasingly active area of research With its connections to algebra algebraic geometry topology and number theory it has implications for a wide variety of researchers and students in mathematics This book is based on lectures given by the author at the Tata Institute in Bombay and elsewhere This new edition includes an appendix on algebraic geometry that contains required definitions and results needed to understand the core of the book      *Global Homotopy Theory and Algebraic K-Theory* Tobias Lenz, 2025-02-25 View the abstract      Algebraic K-theory: The Homotopy Approach Of Quillen And An Approach From Commutative Algebra Satya Mandal, 2023-06-22 In this book the author takes a pedagogic approach to Algebraic K theory He tried to find the shortest route possible with complete details to arrive at the homotopy approach of Quillen Q to Algebraic K theory with a simple goal to produce a self contained and comprehensive pedagogic document in Algebraic K theory that is accessible to upper level graduate students That is precisely what this book faithfully executes and achieves The contents of this book can be divided into three parts 1 The main body Chapters 2 8 2 Epilogue Chapters Chapters 9 10 11 and 3 the Background and preliminaries Chapters A B C 1 The main body deals with Quillen s definition of K theory and the K theory of schemes Chapters 2 3 5 6 and 7 provide expositions of the paper of Quillen Q and chapter 4 is on agreement of Classical K theory and Quillen K theory Chapter 8 is an exposition of the work of Swan Sw1 on K theory of quadrics The Epilogue chapters can be viewed as a natural progression of Quillen s work and methods These represent significant benchmarks and include Waldhausen K theory Negative K theory Hermitian K theory theory spectra Grothendieck Witt theory spectra Triangulated categories Nori Homotopy and its relationships with Chow Witt obstructions for projective modules In most cases the proofs are improvisation of methods of Quillen Q The background preliminaries and tools needed in chapters 2 11 are developed in chapters A on Category Theory and Exact Categories B on Homotopy C on CW Complexes and 1 on Simplicial Sets      Algebraic K-Theory Hvedri Inassaridze, 2013-03-14 Algebraic K theory is a modern branch of algebra which has many important applications in fundamental areas of mathematics connected with algebra topology algebraic geometry functional analysis and algebraic number theory Methods of algebraic K theory are actively used in algebra and related fields achieving interesting results This book presents the elements of algebraic K theory based essentially on the fundamental works of Milnor Swan Bass Quillen Karoubi Gersten Loday and Waldhausen It includes all principal algebraic K theories connections with topological K theory and cyclic homology applications to the theory of monoid and polynomial algebras and in the theory of normed algebras This volume will be of interest to graduate students and research mathematicians who want to learn more about K theory      **Algebraic K-Theory and Its Applications** Jonathan Rosenberg, 2012-12-06 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 The Local Structure of Algebraic K-Theory Bjørn Ian Dundas, Thomas G.

Goodwillie, Randy McCarthy, 2012-09-06 Algebraic K theory encodes important invariants for several mathematical disciplines spanning from geometric topology and functional analysis to number theory and algebraic geometry As is commonly encountered this powerful mathematical object is very hard to calculate Apart from Quillen's calculations of finite fields and Suslin's calculation of algebraically closed fields few complete calculations were available before the discovery of homological invariants offered by motivic cohomology and topological cyclic homology This book covers the connection between algebraic K theory and Bökstedt-Hsiang and Madsen's topological cyclic homology and proves that the difference between the theories are locally constant The usefulness of this theorem stems from being more accessible for calculations than K theory and hence a single calculation of K theory can be used with homological calculations to obtain a host of nearby calculations in K theory For instance Quillen's calculation of the K theory of finite fields gives rise to Hesselholt and Madsen's calculations for local fields and Voevodsky's calculations for the integers give insight into the diffeomorphisms of manifolds In addition to the proof of the full integral version of the local correspondence between K theory and topological cyclic homology the book provides an introduction to the necessary background in algebraic K theory and highly structured homotopy theory collecting all necessary tools into one common framework It relies on simplicial techniques and contains an appendix summarizing the methods widely used in the field The book is intended for graduate students and scientists interested in algebraic K theory and presupposes a basic knowledge of algebraic topology *From Categories to Homotopy Theory* Birgit Richter, 2020-04-16 Category theory provides structure for the mathematical world and is seen everywhere in modern mathematics With this book the author bridges the gap between pure category theory and its numerous applications in homotopy theory providing the necessary background information to make the subject accessible to graduate students or researchers with a background in algebraic topology and algebra The reader is first introduced to category theory starting with basic definitions and concepts before progressing to more advanced themes Concrete examples and exercises illustrate the topics ranging from colimits to constructions such as the Day convolution product Part II covers important applications of category theory giving a thorough introduction to simplicial objects including an account of quasi categories and Segal sets Diagram categories play a central role throughout the book giving rise to models of iterated loop spaces and feature

prominently in functor homology and homology of small categories *Bimonoidal Categories,  $E_\infty$ -Monoidal Categories, and Algebraic K-Theory* Niles Johnson, Donald Yau, 2024-10-23 Bimonoidal categories are categorical analogues of rings without additive inverses They have been actively studied in category theory homotopy theory and algebraic K theory since around 1970 There is an abundance of new applications and questions of bimonoidal categories in mathematics and other sciences The three books published by the AMS in the Mathematical Surveys and Monographs series under the title Bimonoidal Categories  $E_\infty$  Monoidal Categories and Algebraic K Theory Volume I Symmetric Bimonoidal Categories and Monoidal Bicategories Volume II Braided Bimonoidal Categories with Applications and Volume III From Categories to Structured Ring Spectra this book provide a unified treatment of bimonoidal and higher ring like categories their connection with algebraic K theory and homotopy theory and applications to quantum groups and topological quantum computation With ample background material extensive coverage detailed presentation of both well known and new theorems and a list of open questions this work is a user friendly resource for beginners and experts alike Part 1 of this book is a detailed study of enriched monoidal categories pointed diagram categories and enriched multicategories Using this machinery Part 2 discusses the rich interconnection between the higher ring like categories homotopy theory and algebraic K theory Starting with a chapter on homotopy theory background the first half of Part 2 constructs the Segal K theory functor and the Elmendorf Mandell K theory multifunctor from permutative categories to symmetric spectra For the latter the detailed treatment here includes identification and correction of some subtle errors concerning its extended domain The second half applies the K theory multifunctor to small ring bipermutative braided ring and  $E_\infty$  monoidal categories to obtain respectively strict ring  $E_\infty$   $E_2$  and  $E_\infty$  symmetric spectra **Maximal Cohen-Macaulay Modules and Tate Cohomology**

Ragnar-Olaf Buchweitz, 2021-12-16 This book is a lightly edited version of the unpublished manuscript Maximal Cohen Macaulay modules and Tate cohomology over Gorenstein rings by Ragnar Olaf Buchweitz The central objects of study are maximal Cohen Macaulay modules over not necessarily commutative Gorenstein rings The main result is that the stable category of maximal Cohen Macaulay modules over a Gorenstein ring is equivalent to the stable derived category and also to the homotopy category of acyclic complexes of projective modules This assimilates and significantly extends earlier work of Eisenbud on hypersurface singularities There is also an extensive discussion of duality phenomena in stable derived categories extending Tate duality on cohomology of finite groups Another noteworthy aspect is an extension of the classical BGG correspondence to super algebras There are numerous examples that illustrate these ideas The text includes a survey of developments subsequent to and connected with Buchweitz's manuscript Generalized Etale Cohomology Theories John F. Jardine, 2010-12-09 A generalized etale cohomology theory is a theory which is represented by a presheaf of spectra on an etale site for an algebraic variety in analogy with the way an ordinary spectrum represents a cohomology theory for spaces Examples include etale cohomology and etale K theory This book gives new and complete proofs of both Thomason's descent

theorem for Bott periodic K theory and the Nisnevich descent theorem In doing so it exposes most of the major ideas of the homotopy theory of presheaves of spectra and generalized etale homology theories in particular The treatment includes for the purpose of adequately dealing with cup product structures a development of stable homotopy theory for  $n$  fold spectra which is then promoted to the level of presheaves of  $n$  fold spectra This book should be of interest to all researchers working in fields related to algebraic K theory The techniques presented here are essentially combinatorial and hence algebraic An extensive background in traditional stable homotopy theory is not assumed Reviews in developing the techniques of the subject introduces the reader to the stable homotopy category of simplicial presheaves This book provides the user with the first complete account which is sensitive enough to be compatible with the sort of closed model category necessary in K theory applications As an application of the techniques the author gives proofs of the descent theorems of R W Thomason and Y A Nisnevich The book concludes with a discussion of the Lichtenbaum Quillen conjecture an approximation to Thomason s theorem without Bott periodicity The recent proof of this conjecture by V Voevodsky makes this volume compulsory reading for all who want to be au fait with current trends in algebraic K theory Zentralblatt MATH The presentation of these topics is highly original The book will be very useful for any researcher interested in subjects related to algebraic K theory

Matematica *Algebraic K-theory*, 1991 **Mathematical Reviews**, 2008 **The \$K\$-book** Charles A.

Weibel, 2013-06-13 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 algebr **Generalized Etale Cohomology Theories** John Jardine, 2013-01-02 A generalized etale cohomology theory is a theory which is represented by a presheaf of spectra on an etale site for an algebraic variety in analogy with the way an ordinary spectrum represents a cohomology theory for spaces Examples include etale cohomology and etale K theory This book gives new and complete proofs of both Thomason s descent theorem for Bott periodic K theory and the Nisnevich descent theorem In doing so it exposes most of the major ideas of the homotopy theory of presheaves of spectra and generalized etale homology theories in particular The treatment includes for the purpose of adequately dealing with cup product structures a development of stable homotopy theory for  $n$  fold spectra which is then promoted to the level of presheaves of  $n$  fold spectra This book should be of interest to all researchers working in fields related to algebraic K theory The techniques presented here are essentially combinatorial and hence algebraic An extensive background in traditional stable homotopy theory is not assumed Reviews in developing the techniques of the subject introduces the reader to the stable homotopy category of simplicial presheaves This book provides the user with the first complete account which is sensitive enough to be compatible with the sort of closed model category necessary in K theory applications As an application of the techniques the author gives proofs of the descent theorems of R W Thomason and Y A Nisnevich The book concludes with a discussion of the Lichtenbaum Quillen conjecture an approximation to Thomason s theorem without Bott periodicity

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**Introduction to Algebraic K-theory** John Willard Milnor, 1971 Algebraic K theory describes a branch of algebra that centers about two functors  $K_0$  and  $K_1$  which assign to each associative ring an abelian group  $K_0$  or  $K_1$  respectively Professor Milnor sets out in the present work to define and study an analogous functor  $K_2$  also from associative rings to abelian groups Just as functors  $K_0$  and  $K_1$  are important to geometric topologists  $K_2$  is now considered to have similar topological applications The exposition includes besides K theory a considerable amount of related arithmetic

**Reviews in K-theory, 1940-84** Bruce A. Magurn, 1985 **Algebraic K-Theory, Commutative Algebra, and Algebraic Geometry** R. Keith Dennis, 1992 In the mid 1960 s several Italian mathematicians began to study the connections between classical arguments in commutative algebra and algebraic geometry and the contemporaneous development of algebraic K theory in the US These connections were exemplified by the work of Andreotti Bombieri Salmon and Traverso on seminormality and by Bass Murthy on the Picard groups of polynomial rings Interactions proceeded far beyond this initial point to encompass Chow groups of singular varieties complete intersections and applications of K theory to arithmetic and real geometry This volume contains the proceedings from a US Italy Joint Summer Seminar which focused on this circle of ideas The conference held in June 1989 in Santa Margherita Ligure Italy was supported jointly by the Consiglio Nazionale delle Ricerche and the National Science Foundation The book contains contributions from some of the leading experts in this area

*International Books in Print*, 1997 **Algebraic Topology and Algebraic K-Theory (AM-113), Volume 113** William Browder, 2016-03-02 This book contains accounts of talks held at a symposium in honor of John C Moore in October 1983 at Princeton University The work includes papers in classical homotopy theory homological algebra rational homotopy theory algebraic K theory of spaces and other subjects

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