The *K*-book
An Introduction to Algebraic *K*-theory

Charles A. Weibel

Algebraic K Theory

Aderemi Kuku

Algebraic 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 B kstedt 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 **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,1995-12-22 Algebraic K Theory is crucial in many areas of modern mathematics especially algebraic topology number theory algebraic geometry and operator theory This text is designed to help graduate students in other areas learn the basics of K Theory and get a feel for its many applications Topics include algebraic topology homological algebra algebraic number theory and an introduction to cyclic homology and its interrelationship with K Theory **Algebraic K-Theory** Vasudevan Srinivas,2013-11-21 **Algebraic Topology and Algebraic K-theory** William Browder,1987-11-21 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 **Algebraic K-Theory: Connections with Geometry and Topology** John Jardine,V.P. Snaith,1989-06-30 A NATO Advanced Study Institute entitled Algebraic K theory Connections with Geometry and Topology was held at the Chateau Lake Louise Lake Louise Alberta Canada from December 7 to December 11 of 1987 This meeting was jointly supported by NATO and the Natural Sciences and Engineering Research Council of Canada and was sponsored in part by the Canadian Mathematical Society This book is the volume of proceedings for that meeting Algebraic K theory is essentially the study of homotopy invariants arising from rings and their associated matrix groups More importantly perhaps the subject has become central to the study of the relationship between Topology Algebraic Geometry and Number Theory It draws on all of these fields as a subject in its own right but it serves as well as an effective translator for the application of concepts from one field in another The papers in this volume are representative of the current state of the subject They are for the most part research papers which are primarily of interest to researchers in the field and to those aspiring to be such There is a section on problems in this volume which should be of particular interest to students it contains a discussion of the problems from Gersten s well known list of 1973 as well as a short list of new problems **Algebraic K-theory, Commutative Algebra, and Algebraic Geometry** R. Keith Dennis,Claudio Pedrini,Michael R. Stein,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 Introduction to Algebraic K-theory John Willard Milnor,1971 Algebraic K theory describes a branch of algebra that centers about two functors K0 and K1 which assign to each associative ring an abelian group K0 or K1 respectively Professor Milnor sets out in the present work to define and study an analogous functor K2 also from associative rings to abelian groups Just as functors K0 and K1 are important to geometric topologists K2 is now considered to have similar topological applications The exposition includes besides K theory a considerable amount of related arithmetic **Algebraic K-theory** Victor Percy Snaith,Robert Wayne Thomason,1997-01-01 The conference proceedings volume is produced in connection with the second Great Lakes K theory Conference that was held at The Fields Institute for Research in Mathematical Sciences in March 1996 The volume is dedicated to the late Bob Thomason one of the leading research mathematicians specializing in algebraic K theory In addition

to research papers treated directly in the lectures at the conference this volume contains the following i several timely articles inspired by those lectures particularly by that of V Voevodsky ii an extensive exposition by Steve Mitchell of Thomason s famous result concerning the relationship between algebraic K theory and etale cohomology iii a definitive exposition by J L Colliot Thelene R Hoobler and B Kahn explaining and elaborating upon unpublished work of O Gabber of Bloch Ogus Gersten type resolutions in K theory and algebraic geometry This volume will be important both for researchers who want access to details of recent development in K theory and also to graduate students and researchers seeking good advanced exposition *Algebraic K-Theory* Richard G. Swan,2006-11-14 From the Introduction These notes are taken from a course on algebraic K theory given at the University of Chicago in 1967 They also include some material from an earlier course on abelian categories elaborating certain parts of Gabriel s thesis The results on K theory are mostly of a very general nature **Algebraic K-Theory and Algebraic Topology** P.G. Goerss,John F. Jardine,2013-04-17 A NATO Advanced Study Institute entitled Algebraic K theory and Algebraic Topology was held at Chateau Lake Louise Lake Louise Alberta Canada from December 12 to December 16 of 1991 This book is the volume of proceedings for this meeting The papers that appear here are representative of most of the lectures that were given at the conference and therefore present a snapshot of the state ofthe K theoretic art at the end of 1991 The underlying objective of the meeting was to discuss recent work related to the Lichtenbaum Quillen complex of conjectures fro both the algebraic and topological points of view The papers in this volume deal with a range of topics including motivic cohomology theories cyclic homology intersection homology higher class field theory and the former telescope conjecture This meeting was jointly funded by grants from NATO and the National Science Foun dation in the United States I would like to take this opportunity to thank these agencies for their support I would also like to thank the other members of the organizing com mittee namely Paul Goerss Bruno Kahn and Chuck Weibel for their help in making the conference successful This was the second NATO Advanced Study Institute to be held in this venue the first was in 1987 The success of both conferences owes much to the professionalism and helpfulness of the administration and staff of Chateau Lake Louise **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 and Algebraic Number Theory Michael R. Stein,R. Keith Dennis,1989 This volume contains the proceedings of a seminar on Algebraic K theory and Algebraic Number Theory held at the East West Center in Honolulu in January 1987 The seminar which hosted nearly 40 experts from the U S and Japan was motivated by the wide range of connections between the two topics as exemplified in the work of Merkurjev Suslin Beilinson Bloch Ramakrishnan Kato Saito Lichtenbaum Thomason and Ihara As is evident from the diversity of topics represented in these proceedings the seminar provided an opportunity for mathematicians from both areas to initiate further interactions between these two areas   **An Approach to Algebraic K-theory** A. Jon Berrick,1982   Topics in Algebraic and Topological K-Theory Paul Frank Baum,Guillermo Cortiñas,Ralf Meyer,Rubén Sánchez-García,Marco Schlichting,Bertrand Toën,2010-10-28 This volume is an introductory textbook to K theory both algebraic and topological and to various current research topics within the field including Kasparov s bivariant K theory the Baum Connes conjecture the comparison between algebraic and topological K theory of topological algebras the K theory of schemes and the theory of dg categories

Representation Theory and Higher Algebraic K-Theory Aderemi Kuku,2006-09-27 Representation Theory and Higher Algebraic K Theory is the first book to present higher algebraic K theory of orders and group rings as well as characterize higher algebraic K theory as Mackey functors that lead to equivariant higher algebraic K theory and their relative generalizations Thus this book makes computations of higher K theory of group rings more accessible and provides novel techniques for the computations of higher K theory of finite and some infinite groups Authored by a premier authority in the field the book begins with a careful review of classical K theory including clear definitions examples and important classical results Emphasizing the practical value of the usually abstract topological constructions the author systematically discusses higher algebraic K theory of exact symmetric monoidal and Waldhausen categories with applications to orders and group rings and proves numerous results He also defines profinite higher K and G theory of exact categories orders and group rings Providing new insights into classical results and opening avenues for further applications the book then uses representation theoretic techniques especially induction theory to examine equivariant higher algebraic K theory their relative generalizations and equivariant homology theories for discrete group actions The final chapter unifies Farrell and Baum Connes isomorphism conjectures through Davis L ck assembly maps   **Algebraic K-theory** ,1991   **Handbook of K-Theory** Eric Friedlander,Daniel R. Grayson,2005-07-18 This handbook offers a compilation of techniques and results in K

theory Each chapter is dedicated to a specific topic and is written by a leading expert Many chapters present historical background some present previously unpublished results whereas some present the first expository account of a topic many discuss future directions as well as open problems It offers an exposition of our current state of knowledge as well as an implicit blueprint for future research *Algebraic K-Theory and Localised Stable Homotopy Theory* Victor Percy Snaith,1983 There is a homomorphism from the stable homotopy of the classifying space of the group of units in a ring to its algebraic italic K theory When the ring has enough roots of unity a Bott element exists in these groups taken with coefficients We compute the groups obtained by inverting the Bott element This computation is used in conjunction with homomorphism to construct algebraic italic K theory classes and to give upper bounds on italic K theory with the Bott element inverted

Higher Algebraic K-Theory: An Overview Emilio Lluis-Puebla,Jean-Louis Loday,Henri Gillet,Christophe Soule,Victor Snaith,2006-11-14 This book is a general introduction to Higher Algebraic K groups of rings and algebraic varieties which were first defined by Quillen at the beginning of the 70 s These K groups happen to be useful in many different fields including topology algebraic geometry algebra and number theory The goal of this volume is to provide graduate students teachers and researchers with basic definitions concepts and results and to give a sampling of current directions of research Written by five specialists of different parts of the subject each set of lectures reflects the particular perspective ofits author As such this volume can serve as a primer if not as a technical basic textbook for mathematicians from many different fields of interest

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