



# **Algebraic K-Theory: Connections with Geometry and Topology**

Edited by

**J. F. Jardine and V. P. Snaith**

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# Algebraic K Theory Connections With Geometry And Topology

**Patrick Fitzpatrick, Mario Martelli, Jean  
Mawhin, Roger Nussbaum**



## **Algebraic K Theory Connections With Geometry And Topology:**

**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* 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* Vasudevan Srinivas, 2009-05-21 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 graduate students in mathematics The book is based on lectures given at the author's home institution the Tata Institute in Bombay and elsewhere A detailed appendix on topology was provided in the first edition to make the treatment accessible to readers with a limited background in topology This new edition also includes an appendix on algebraic geometry that contains the required definitions and results needed to understand the core of the book this makes the book accessible to a wider audience A central part of the book is a detailed exposition of the ideas of Quillen as contained in his classic papers Higher Algebraic K Theory I II A more elementary proof of the theorem of Merkurjev Suslin

is given in this edition this makes the treatment of this topic self contained An applications is also given to modules of finite length and finite projective dimension over the local ring of a normal surface singularity These results lead the reader to some interesting conclusions regarding the Chow group of varieties *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 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 of the 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 from 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 Foundation 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 committee 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* 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* Wayne Raskind, Charles A. Weibel, 1999 This volume presents the proceedings of the Joint Summer Research Conference on Algebraic K theory held at the University of Washington in Seattle High quality surveys are written by leading experts in the field Included is an up to date account of Voevodsky's proof of the Milnor conjecture relating the Milnor K theory of fields to Galois cohomology The book is intended for graduate students and research mathematicians interested in K theory algebraic geometry and number theory      **Algebraic K-Theory** Vasudevan Srinivas, 2014-09-01      *K-Theory and Algebraic Geometry: Connections with Quadratic Forms and Division Algebras* Bill Jacob, Alex Rosenberg, 1995 Volume 1 of two also available in a two volume set

*Lecture Notes on Motivic Cohomology* Carlo Mazza, Vladimir Voevodsky, Charles A. Weibel, 2006 The notion of a motive is an elusive one like its namesake the motif of Cezanne's impressionist method of painting Its existence was first suggested by Grothendieck in 1964 as the underlying structure behind the myriad cohomology theories in Algebraic Geometry We now know that there is a triangulated theory of motives discovered by Vladimir Voevodsky which suffices for the development of a satisfactory Motivic Cohomology theory However the existence of motives themselves remains conjectural This book provides an account of the triangulated theory of motives Its purpose is to introduce Motivic Cohomology to develop its main properties and finally to relate it to other known invariants of algebraic varieties and rings such as Milnor K theory etale cohomology and Chow groups The book is divided into lectures grouped in six parts The first part presents the definition of Motivic Cohomology based upon the notion of presheaves with transfers Some elementary comparison theorems are given in this part The theory of etale Nisnevich and Zariski sheaves with transfers is developed in parts two three and six respectively The theoretical core of the book is the fourth part presenting the triangulated category of motives Finally the comparison with higher Chow groups is developed in part five The lecture notes format is designed for the book to be read by an advanced graduate student or an expert in a related field The lectures roughly correspond to one hour lectures given by Voevodsky during the course he gave at the Institute for Advanced Study in Princeton on this subject in 1999 2000 In addition many of the original proofs have been simplified and improved so that this book will also be a useful tool for research mathematicians Information for our distributors Titles in this series are copublished with the Clay Mathematics

Institute Cambridge MA     *The Grothendieck Festschrift, Volume III* Pierre Cartier, Luc Illusie, Nicholas M. Katz, Gérard Laumon, Yuri I. Manin, Kenneth A. Ribet, 2007-10-23 This three volume work contains articles collected on the occasion of Alexander Grothendieck's sixtieth birthday and originally published in 1990 The articles were offered as a tribute to one of the world's greatest living mathematicians Many of the groundbreaking contributions in these volumes contain material that is now considered foundational to the subject Topics addressed by these top notch contributors match the breadth of Grothendieck's own interests including functional analysis algebraic geometry algebraic topology number theory representation theory K theory category theory and homological algebra     **Topological Methods for Ordinary**

**Differential Equations** Patrick Fitzpatrick, Mario Martelli, Jean Mawhin, Roger Nussbaum, 2006-11-14 The volume contains the texts of four courses given by the authors at a summer school that sought to present the state of the art in the growing field of topological methods in the theory of ordinary finite and infinite dimension and to provide a forum for discussion of the wide variety of mathematical tools which are involved The topics covered range from the extensions of the Lefschetz fixed point and the fixed point index on ANR's to the theory of parity of one parameter families of Fredholm operators and from the theory of coincidence degree for mappings on Banach spaces to homotopy methods for continuation principles CONTENTS P Fitzpatrick The parity as an invariant for detecting bifurcation of the zeroes of one parameter families of nonlinear Fredholm maps M Martelli Continuation principles and boundary value problems J Mawhin Topological degree and boundary value problems for nonlinear differential equations R D Nussbaum The fixed point index and fixed point theorems     **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     **Surveys on Recent Developments in Algebraic Geometry** Izzet

Coskun, Tommaso de Fernex, Angela Gibney, 2017-07-12 The algebraic geometry community has a tradition of running a summer research institute every ten years During these influential meetings a large number of mathematicians from around the world convene to overview the developments of the past decade and to outline the most fundamental and far reaching problems for the next The meeting is preceded by a Bootcamp aimed at graduate students and young researchers This volume collects ten surveys that grew out of the Bootcamp held July 6-10 2015 at University of Utah Salt Lake City Utah These papers give succinct and thorough introductions to some of the most important and exciting developments in algebraic geometry in the last decade Included are descriptions of the striking advances in the Minimal Model Program moduli spaces derived categories Bridgeland stability motivic homotopy theory methods in characteristic and Hodge theory Surveys contain many examples exercises and open problems which will make this volume an invaluable and enduring resource for

researchers looking for new directions      **Stable Homotopy Around the Arf-Kervaire Invariant** Victor P.

Snaith, 2009-03-28 Were I to take an iron gun And re it o towards the sun I grant twould reach its mark at last But not till many years had passed But should that bullet change its force And to the planets take its course Twould never reach the nearest star Because it is so very far from FACTS by Lewis Carroll 55 Let me begin by describing the two purposes which prompted me to write this monograph This is a book about algebraic topology and more especially about homotopy theory Since the inception of algebraic topology 217 the study of homotopy classes of continuous maps between spheres has enjoyed a very exc n n tional central role As is well known for homotopy classes of maps  $f: S^n \rightarrow S^n$  with  $n \geq 1$  the sole homotopy invariant is the degree which characterises the homotopy class completely The search for a continuous map between spheres of different dimensions and not homotopic to the constant map had to wait for its resolution until the remarkable paper of Heinz Hopf 111 In retrospect nding 3 an example was rather easy because there is a canonical quotient map from  $S^3$  to  $S^1 \times S^2$

theorbitspaceofthefreecircleaction  $S^1 \times S^1 \rightarrow S^1$       **Canadian Mathematical Bulletin**, 1993-12      *Local Homotopy Theory*

John F. Jardine, 2015-05-27 This monograph on the homotopy theory of topologized diagrams of spaces and spectra gives an expert account of a subject at the foundation of motivic homotopy theory and the theory of topological modular forms in stable homotopy theory Beginning with an introduction to the homotopy theory of simplicial sets and topos theory the book covers core topics such as the unstable homotopy theory of simplicial presheaves and sheaves localized theories cocycles descent theory non abelian cohomology stacks and local stable homotopy theory A detailed treatment of the formalism of the subject is interwoven with explanations of the motivation development and nuances of ideas and results The coherence of the abstract theory is elucidated through the use of widely applicable tools such as Barr's theorem on Boolean localization model structures on the category of simplicial presheaves on a site and cocycle categories A wealth of concrete examples convey the vitality and importance of the subject in topology number theory algebraic geometry and algebraic K theory Assuming basic knowledge of algebraic geometry and homotopy theory Local Homotopy Theory will appeal to researchers and advanced graduate students seeking to understand and advance the applications of homotopy theory in multiple areas of mathematics and the mathematical sciences      **Simplicial Homotopy Theory** Paul G. Goerss, John F. Jardine, 2012-12-06

Since the beginning of the modern era of algebraic topology simplicial methods have been used systematically and effectively for both computation and basic theory With the development of Quillen's concept of a closed model category and in particular a simplicial model category this collection of methods has become the primary way to describe non abelian homological algebra and to address homotopy theoretical issues in a variety of fields including algebraic K theory This book supplies a modern exposition of these ideas emphasizing model category theoretical techniques Discussed here are the homotopy theory of simplicial sets and other basic topics such as simplicial groups Postnikov towers and bisimplicial sets The more advanced material includes homotopy limits and colimits localization with respect to a map and with respect to a

homology theory cosimplicial spaces and homotopy coherence Interspersed throughout are many results and ideas well known to experts but uncollected in the literature Intended for second year graduate students and beyond this book introduces many of the basic tools of modern homotopy theory An extensive background in topology is not assumed

*Higher Spinor Classes* J. F. Jardine, 1994 This work defines the higher spinor classes of an orthogonal representation of a Galois group These classes are higher degree analogues of the Frobenius spinor class which quantify the difference between the Stiefel Whitney classes of an orthogonal representation and the Hasse Witt classes of the associated form Jardine establishes various basic properties including vanishing in odd degrees and an induction formula for quadratic field extensions The methods used include the homotopy theory of simplicial presheaves and the action of the Steenrod algebra on mod 2 tale cohomology

**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



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