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Marco Schlichting

Guillermo Cortiñas
Rubén Sánchez-García
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Topics in Algebraic and Topological K-Theory

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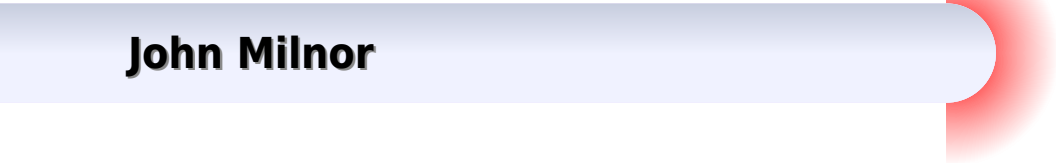
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Topics In Algebraic And Topological K Theory Lecture Notes In Mathematics

John Milnor



Topics In Algebraic And Topological K Theory Lecture Notes In Mathematics:

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

Topics in Algebraic and Topological K-Theory Paul Frank Baum,Ralf Meyer,Rubén Sánchez-García,Marco Schlichting,Bertrand Toën,2010-11-05 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

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a specific topic and is written by a leading expert Many chapters present historical background some present previously unpublished results whereas some present the first expository account of a topic many discuss future directions as well as open problems It offers an exposition of our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 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

Topology and K-theory R. C. Penner,2020 These are notes from a graduate student course on algebraic topology and K theory given by Daniel Quillen at the Massachusetts Institute of Technology during 1979 1980 He had just received the Fields Medal for his work on these topics among others and was funny and playful with a confident humility from the start These are not meant to be polished lecture notes rather things are presented as did Quillen reflected in the hand written notes resisting any temptation to change or add notation details or elaborations Indeed the text is faithful to Quillen s own exposition even respecting the sl board like presentation of formulae diagrams and proofs omitting numbering theorems in favor of names and so on This is meant to be Quillen on Quillen as it happened forty years ago an informal text for a second semester graduate student on topology category theory and K theory a potential preface to studying Quillen s own landmark papers and an informal glimpse of his great mind The intellectual pace of the lectures namely fast and lively is Quillen himself and part of the point here is to capture some of this intimacy To be sure much has happened since then from this categorical perspective started by Grothendieck and Misha Kapranov has contributed an Afterword in order to make it more useful to current students

Topology and K-Theory Robert Penner,2020-04-25 These are notes from a graduate student

course on algebraic topology and K theory given by Daniel Quillen at the Massachusetts Institute of Technology during 1979-1980. He had just received the Fields Medal for his work on these topics among others and was funny and playful with a confident humility from the start. These are not meant to be polished lecture notes; rather, things are presented as they did. Quillen reflected in the handwritten notes, resisting any temptation to change or add notation details or elaborations. Indeed, the text is faithful to Quillen's own exposition, even respecting the slide-board-like presentation of formulae, diagrams, and proofs, omitting numbering theorems in favor of names and so on. This is meant to be Quillen on Quillen, as it happened forty years ago, an informal text for a second semester graduate student on topology, category theory, and K theory, a potential preface to studying Quillen's own landmark papers, and an informal glimpse of his great mind. The intellectual pace of the lectures, namely fast and lively, is Quillen himself, and part of the point here is to capture some of this intimacy. To be sure, much has happened since then; from this categorical perspective, started by Grothendieck and Misha Kapranov, has contributed an Afterword in order to make it more useful to current students.

Higher Index Theory Rufus Willett, Guoliang Yu, 2020-07-02. Index theory studies the solutions to differential equations on geometric spaces, their relation to the underlying geometry and topology, and applications to physics. If the space of solutions is infinite dimensional, it becomes necessary to generalise the classical Fredholm index using tools from the K theory of operator algebras. This leads to higher index theory, a rapidly developing subject with connections to noncommutative geometry, large scale geometry, manifold topology, and geometry and operator algebras. Aimed at geometers, topologists, and operator algebraists, this book takes a friendly and concrete approach to this exciting theory, focusing on the main conjectures in the area and their applications outside of it. A well-balanced combination of detailed introductory material with exercises, cutting edge developments, and references to the wider literature, make this a valuable guide to this active area for graduate students and experts alike.

Space - Time - Matter Jochen Brüning, Matthias Staudacher, 2018-04-09. This monograph describes some of the most interesting results obtained by the mathematicians and physicists collaborating in the CRC 647 Space Time Matter in the years 2005-2016. The work presented concerns the mathematical and physical foundations of string and quantum field theory, as well as cosmology. Important topics are the spaces and metrics modelling the geometry of matter and the evolution of these geometries. The partial differential equations governing such structures and their singularities, special solutions, and stability properties are discussed in detail. Contents: Introduction, Algebraic K theory, assembly maps, controlled algebra, and trace methods, Lorentzian manifolds with special holonomy, Constructions and global properties, Contributions to the spectral geometry of locally homogeneous spaces, On conformally covariant differential operators and spectral theory of the holographic Laplacian, Moduli and deformations, Vector bundles in algebraic geometry and mathematical physics, Dyson-Schwinger equations, Fix point equations for quantum fields, Hidden structure in the form factors of $N=4$ SYM, On regulating the AdS superstring, Constraints on CFT observables from the bootstrap program, Simplifying amplitudes in Maxwell-Einstein

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K-theory Michael Atiyah,2018-03-05 These notes are based on the course of lectures I gave at Harvard in the fall of 1964 They constitute a self contained account of vector bundles and K theory assuming only the rudiments of point set topology and linear algebra One of the features of the treatment is that no use is made of ordinary homology or cohomology theory In fact rational cohomology is defined in terms of K theory The theory is taken as far as the solution of the Hopf invariant problem and a start is made on the J homomorphism In addition to the lecture notes proper two papers of mine published since 1964 have been reproduced at the end The first dealing with operations is a natural supplement to the material in Chapter III It provides an alternative approach to operations which is less slick but more fundamental than the Grothendieck method of Chapter III and it relates operations and filtration Actually the lectures deal with compact spaces not cell complexes and so the skeleton filtration does not figure in the notes The second paper provides a new approach to K theory and so fills an obvious gap in the lecture notes

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

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

An Algebraic Introduction to K-Theory Bruce A. Magurn, 2002-05-20 This is an introduction to algebraic K theory with no prerequisite beyond a first semester of algebra including Galois theory and modules over a principal ideal domain The presentation is almost entirely self contained and is divided into short sections with exercises to reinforce the ideas and suggest further lines of inquiry No experience with analysis geometry number theory or topology is assumed Within the context of linear algebra K theory organises and clarifies the relations among ideal class groups group representations quadratic forms dimensions of a ring determinants quadratic reciprocity and Brauer groups of fields By including introductions to standard algebra topics tensor products localisation Jacobson radical chain conditions Dedekind domains semi simple rings exterior algebras the author makes algebraic K theory accessible to first year graduate students and other mathematically sophisticated readers Even if your algebra is rusty you can read this book the necessary background is here with proofs

Algebraic K-theory Grzegorz Banaszak, Wojciech Gajda, Piotr Krasoń, 1996-01-01 This book contains proceedings of the research conference on algebraic K theory that took place in Poznan Poland in September 1995 The conference concluded the activity of the algebraic K theory seminar held at the Adam Mickiewicz University in the academic year 1994 1995 Talks at the conference covered a wide range of current research activities in algebraic K theory In particular the following topics were covered K theory of fields and rings of integers K theory of elliptic and modular curves theory of motives motivic cohomology Beilinson conjectures and algebraic K theory of topological spaces topological Hochschild homology and cyclic homology With contributions by some leading experts in the field this book provides a look at the state of current research in algebraic K theory

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 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 *Topics in Cohomological Studies of Algebraic Varieties* Piotr Pragacz,2005-02-17 The articles in this volume study various cohomological aspects of algebraic varieties characteristic classes of singular varieties geometry of flag varieties cohomological computations for homogeneous spaces K theory of algebraic varieties quantum cohomology and Gromov Witten theory The main purpose is to give comprehensive introductions to the above topics through a series of friendly texts starting from a very elementary level and ending with the discussion of current research In the articles the reader will find classical results and methods as well as new ones Numerous examples will help to understand the mysteries of the cohomological theories presented The book will be a useful guide to research in the above mentioned areas It is addressed to researchers and graduate students in algebraic geometry algebraic topology and singularity theory as well as to mathematicians interested in homogeneous varieties and symmetric functions Most of the material exposed in the volume has not appeared in books before Contributors Paolo Aluffi Michel Brion Anders Skovsted Buch Haibao Duan Ali Ulas Ozgur Kisisel Piotr Pragacz J rg Sch rmann Marek Szyjewski Harry Tamvakis **Algebra, K -Theory, Groups, and Education** Hyman Bass,Tsit-Yuen Lam,Andy R. Magid,1999 This volume includes expositions of key developments over the past four decades in commutative and non commutative algebra algebraic K theory infinite group theory and applications of algebra to topology Many of the articles are based on lectures given at a conference at Columbia University honoring the 65th birthday of Hyman Bass Important topics related to Bass s mathematical interests are surveyed by leading experts in the field Of particular note is a professional autobiography of Professor Bass and an article by Deborah Ball on mathematical education The range of subjects covered in the book offers a convenient single source for topics in the field Introduction to

Algebraic K-Theory John Milnor, 2016-03-02 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 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

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