

# Exact Sequences in the Algebraic Theory of Surgery (Mathematical Notes)

Ranicki, A

# Exact Sequences In The Algebraic Theory Of Surgery

**L Cohen**



## **Exact Sequences In The Algebraic Theory Of Surgery:**

**Exact Sequences in the Algebraic Theory of Surgery** Andrew Ranicki, 1981 The Description for this book Exact Sequences in the Algebraic Theory of Surgery MN 26 will be forthcoming [Equivariant Surgery Theories and Their Periodicity Properties](#) Karl H. Dovermann, Reinhard Schultz, 2006-11-14 The theory of surgery on manifolds has been generalized to categories of manifolds with group actions in several different ways This book discusses some basic properties that such theories have in common Special emphasis is placed on analogs of the fourfold periodicity theorems in ordinary surgery and the roles of standard general position hypotheses on the strata of manifolds with group actions The contents of the book presuppose some familiarity with the basic ideas of surgery theory and transformation groups but no previous knowledge of equivariant surgery is assumed The book is designed to serve either as an introduction to equivariant surgery theory for advanced graduate students and researchers in related areas or as an account of the authors previously unpublished work on periodicity for specialists in surgery theory or transformation groups **Surgery Theory** Wolfgang Lück, Tibor Macko, 2024-07-05 This monograph provides a comprehensive introduction to surgery theory the main tool in the classification of manifolds Surgery theory was developed to carry out the so called Surgery Program a basic strategy to decide whether two closed manifolds are homeomorphic or diffeomorphic This book provides a detailed explanation of all the ingredients necessary for carrying out the surgery program as well as an in depth discussion of the obstructions that arise The components include the surgery step the surgery obstruction groups surgery obstructions and the surgery exact sequence This machinery is applied to homotopy spheres the classification of certain fake spaces and topological rigidity The book also offers a detailed description of Ranicki's chain complex version complete with a proof of its equivalence to the classical approach developed by Browder Novikov Sullivan and Wall This book has been written for learning surgery theory and includes numerous exercises With full proofs and detailed explanations it also provides an invaluable reference for working mathematicians Each chapter has been designed to be largely self contained and includes a guide to help readers navigate the material making the book highly suitable for lecture courses seminars and reading courses [Algebraic and Geometric Surgery](#) Andrew Ranicki, 2002 This book is an introduction to surgery theory the standard classification method for high dimensional manifolds It is aimed at graduate students who have already had a basic topology course and would now like to understand the topology of high dimensional manifolds This text contains entry level accounts of the various prerequisites of both algebra and topology including basic homotopy and homology Poincare duality bundles cobordism embeddings immersions Whitehead torsion Poincare complexes spherical fibrations and quadratic forms and formations While concentrating on the basic mechanics of surgery this book includes many worked examples useful drawings for illustration of the algebra and references for further reading *A Course on Surgery Theory* Stanley Chang, Shmuel Weinberger, 2021-01-26 Princeton University Press is proud to have published the Annals of Mathematics Studies since 1940

One of the oldest and respected series in science published it has included many of the most important and influential mathematical works of the twentieth century The series continues this tradition as Princeton University Press publishes the major works of the twenty first century Book jacket , **Novikov Conjectures, Index Theorems, and Rigidity:**

**Volume 1** Steven C. Ferry, Andrew Ranicki, Jonathan M. Rosenberg, London Mathematical Society, 1995-11-23 The Novikov Conjecture is the single most important unsolved problem in the topology of high dimensional non simply connected manifolds These volumes are the outgrowth of a conference held at the Mathematisches Forschungsinstitut Oberwolfach Germany in September 1993 on the subject of Novikov conjectures index theorems and rigidity **Algebraic L-theory and Topological Manifolds** Andrew Ranicki, 1992-12-10 Assuming no previous acquaintance with surgery theory and justifying all the algebraic concepts used by their relevance to topology Dr Ranicki explains the applications of quadratic forms to the classification of topological manifolds in a unified algebraic framework **The Disc Embedding Theorem** Stefan Behrens, Boldizsar Kalmar, Min Hoon Kim, Mark Powell, Arunima Ray, 2021-07-15 Based on Fields medal winning work of Michael Freedman this book explores the disc embedding theorem for 4 dimensional manifolds This theorem underpins virtually all our understanding of topological 4 manifolds Most famously this includes the 4 dimensional Poincaré conjecture in the topological category The Disc Embedding Theorem contains the first thorough and approachable exposition of Freedman's proof of the disc embedding theorem with many new details A self contained account of decomposition space theory a beautiful but outmoded branch of topology that produces non differentiable homeomorphisms between manifolds is provided as well as a stand alone interlude that explains the disc embedding theorem's key role in all known homeomorphism classifications of 4 manifolds via surgery theory and the s cobordism theorem Additionally the ramifications of the disc embedding theorem within the study of topological 4 manifolds for example Frank Quinn's development of fundamental tools like transversality are broadly described The book is written for mathematicians within the subfield of topology specifically interested in the study of 4 dimensional spaces and includes numerous professionally rendered figures *Algebraic Topology. Poznań 1989* Stefan Jackowski, Bob Oliver, Krzysztof Pawalowski, 2006-11-14 As part of the scientific activity in connection with the 70th birthday of the Adam Mickiewicz University in Poznań an international conference on algebraic topology was held In the resulting proceedings volume the emphasis is on substantial survey papers some presented at the conference some written subsequently **L2-Invariants: Theory and Applications to Geometry and K-Theory** Wolfgang Lück, 2013-03-09 In algebraic topology some classical invariants such as Betti numbers and Reidemeister torsion are defined for compact spaces and finite group actions They can be generalized using von Neumann algebras and their traces and applied also to non compact spaces and infinite groups These new L2 invariants contain very interesting and novel information and can be applied to problems arising in topology K Theory differential geometry non commutative geometry and spectral theory It is particularly these interactions with different fields that make L2 invariants very powerful and

exciting The book presents a comprehensive introduction to this area of research as well as its most recent results and developments It is written in a way which enables the reader to pick out a favourite topic and to find the result she or he is interested in quickly and without being forced to go through other material Surveys on Surgery Theory, Volume 2 Sylvain Cappell, Andrew Ranicki, Jonathan Rosenberg, 2014-09-08 Surgery theory the basis for the classification theory of manifolds is now about forty years old The sixtieth birthday on December 14 1996 of C T C Wall a leading member of the subject s founding generation led the editors of this volume to reflect on the extraordinary accomplishments of surgery theory as well as its current enormously varied interactions with algebra analysis and geometry Workers in many of these areas have often lamented the lack of a single source surveying surgery theory and its applications Because no one person could write such a survey the editors asked a variety of experts to report on the areas of current interest This is the second of two volumes resulting from that collective effort It will be useful to topologists to other interested researchers and to advanced students The topics covered include current applications of surgery Wall s finiteness obstruction algebraic surgery automorphisms and embeddings of manifolds surgery theoretic methods for the study of group actions and stratified spaces metrics of positive scalar curvature and surgery in dimension four In addition to the editors the contributors are S Ferry M Weiss B Williams T Goodwillie J Klein S Weinberger B Hughes S Stolz R Kirby L Taylor and F Quinn Handbook of Geometric Topology R.B. Sher, R.J. Daverman, 2001-12-20 Geometric Topology is a foundational component of modern mathematics involving the study of spacial properties and invariants of familiar objects such as manifolds and complexes This volume which is intended both as an introduction to the subject and as a wide ranging resource for those already grounded in it consists of 21 expository surveys written by leading experts and covering active areas of current research They provide the reader with an up to date overview of this flourishing branch of mathematics

**Noncommutative Localization in Algebra and Topology** Andrew Ranicki, 2006-02-09 Noncommutative localization is a powerful algebraic technique for constructing new rings by inverting elements matrices and more generally morphisms of modules Originally conceived by algebraists notably P M Cohn it is now an important tool not only in pure algebra but also in the topology of non simply connected spaces algebraic geometry and noncommutative geometry This volume consists of 9 articles on noncommutative localization in algebra and topology by J A Beachy P M Cohn W G Dwyer P A Linnell A Neeman A A Ranicki H Reich D Sheiham and Z Skoda The articles include basic definitions surveys historical background and applications as well as presenting new results The book is an introduction to the subject an account of the state of the art and also provides many references for further material It is suitable for graduate students and more advanced researchers in both algebra and topology

**Surveys on Surgery Theory, Volume 1** Sylvain Cappell, Andrew Ranicki, Jonathan Rosenberg, 2014-09-08 Surgery theory the basis for the classification theory of manifolds is now about forty years old There have been some extraordinary accomplishments in that time which have led to enormously varied interactions with algebra analysis and

geometry Workers in many of these areas have often lamented the lack of a single source that surveys surgery theory and its applications Indeed no one person could write such a survey The sixtieth birthday of C T C Wall one of the leaders of the founding generation of surgery theory provided an opportunity to rectify the situation and produce a comprehensive book on the subject Experts have written state of the art reports that will be of broad interest to all those interested in topology not only graduate students and mathematicians but mathematical physicists as well Contributors include J Milnor S Novikov W Browder T Lance E Brown M Kreck J Klein M Davis J Davis I Hambleton L Taylor C Stark E Pedersen W Mio J Levine K Orr J Roe J Milgram and C Thomas Algebraic Topology. Aarhus 1982 I. Madsen, B. Oliver, 2006-11-14 **Local Surgery and the Exact Sequence of a Localization for Wall Groups** William Pardon, 1977 In the monograph under consideration here the author develops the geometry of the situation for any lowercase Greek  $\pi$  The main tool is the notion of a local surgery on a conglomerate Moore space which is a sequence of surgeries on a normal map  $\script f$  such that each of the maps in the trace  $\textit{italic g}$   $\script f$   $\script f$   $\textit{italic N}$   $M \rightarrow M$   $\rightarrow X$  is a rational homotopy equivalence It is possible to perform local surgery below the middle dimension to make an  $n$  dimensional rational homotopy equivalence  $n \geq 2$  connected and to prove a local lowercase Greek  $\pi$  theorem so that the global local surgery obstruction is the Witt class of the linking form on the remaining kernel torsion modules This brief summary belies the technical difficulties which have to be overcome in the process particularly the geometric intersection theory of local surgery *Surgery on Compact Manifolds* C. T. C. Wall, 2024-11-18 The publication of this book in 1970 marked the culmination of a particularly exciting period in the history of the topology of manifolds The world of high dimensional manifolds had been opened up to the classification methods of algebraic topology by Thom's work in 1952 on transversality and cobordism the signature theorem of Hirzebruch in 1954 and by the discovery of exotic spheres by Milnor in 1956 In the 1960s there had been an explosive growth of interest in the surgery method of understanding the homotopy types of manifolds initially in the differentiable category including results such as the  $h$  cobordism theory of Smale 1960 the classification of exotic spheres by Kervaire and Milnor 1962 Browder's converse to the Hirzebruch signature theorem for the existence of a manifold in a simply connected homotopy type 1962 the  $s$  cobordism theorem of Barden Mazur and Stallings 1964 Novikov's proof of the topological invariance of the rational Pontrjagin classes of differentiable manifolds 1965 the fibering theorems of Browder and Levine 1966 and Farrell 1967 Sullivan's exact sequence for the set of manifold structures within a simply connected homotopy type 1966 Casson and Sullivan's disproof of the Hauptvermutung for piecewise linear manifolds 1967 Wall's classification of homotopy tori 1969 and Kirby and Siebenmann's classification theory of topological manifolds 1970 The original edition of the book fulfilled five purposes by providing a coherent framework for relating the homotopy theory of manifolds to the algebraic theory of quadratic forms unifying many of the previous results a surgery obstruction theory for manifolds with arbitrary fundamental group including the exact sequence for the set of manifold structures within a homotopy type and many computations the

extension of surgery theory from the differentiable and piecewise linear categories to the topological category a survey of most of the activity in surgery up to 1970 a setting for the subsequent development and applications of the surgery classification of manifolds This new edition of this classic book is supplemented by notes on subsequent developments References have been updated and numerous commentaries have been added The volume remains the single most important book on surgery theory     *The Geometric Hopf Invariant and Surgery Theory* Michael Crabb, Andrew Ranicki, 2018-01-24 Written by leading experts in the field this monograph provides homotopy theoretic foundations for surgery theory on higher dimensional manifolds Presenting classical ideas in a modern framework the authors carefully highlight how their results relate to and generalize existing results in the literature The central result of the book expresses algebraic surgery theory in terms of the geometric Hopf invariant a construction in stable homotopy theory which captures the double points of immersions Many illustrative examples and applications of the abstract results are included in the book making it of wide interest to topologists Serving as a valuable reference this work is aimed at graduate students and researchers interested in understanding how the algebraic and geometric topology fit together in the surgery theory of manifolds It is the only book providing such a wide ranging historical approach to the Hopf invariant double points and surgery theory with many results old and new     *The Structure of the Rational Concordance Group of Knots* Jae Choon Cha, 2007 The author studies the group of rational concordance classes of codimension two knots in rational homology spheres He gives a full calculation of its algebraic theory by developing a complete set of new invariants For computation he relates these invariants with limiting behaviour of the Artin reciprocity over an infinite tower of number fields and analyzes it using tools from algebraic number theory In higher dimensions it classifies the rational concordance group of knots whose ambient space satisfies a certain cobordism theoretic condition In particular he constructs infinitely many torsion elements He shows that the structure of the rational concordance group is much more complicated than the integral concordance group from a topological viewpoint He also investigates the structure peculiar to knots in rational homology 3 spheres To obtain further nontrivial obstructions in this dimension he develops a technique of controlling a certain limit of the von Neumann  $L^2$  signature invariants

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