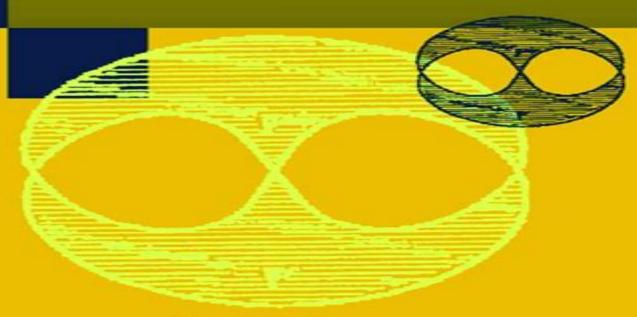
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Algebraic Surgery in Codimension 2





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High-dimensional Knot Theory Andrew Ranicki,1998-08-06 Bringing together many results previously scattered throughout the research literature into a single framework this work concentrates on the application of the author s algebraic theory of surgery to provide a unified treatment of the invariants of codimension 2 embeddings generalizing the Alexander polynomials and Seifert forms of classical knot theory **High-dimensional Knot Theory** Andrew Ranicki, 2013-04-17 High dimensional knot theory is the study of the embeddings of n dimensional manifolds in n 2 dimensional manifolds generalizing the traditional study of knots in the case n 1 The main theme is the application of the author's algebraic theory of surgery to provide a unified treatment of the invariants of codimension 2 embeddings generalizing the Alexander polynomials and Seifert forms of classical knot theory Many results in the research literature are thus brought into a single framework and new results are obtained. The treatment is particularly effective in dealing with open books which are manifolds with codimension 2 submanifolds such that the complement fibres over a circle The book concludes with an appendix by E Winkelnkemper on the history of open books High-Dimensional Knot Theory Andrew Handbook of Knot Theory William Menasco, Morwen Thistlethwaite, 2005-08-02 This book is a survey Ranicki, 2014-01-15 of current topics in the mathematical theory of knots For a mathematician a knot is a closed loop in 3 dimensional space imagine knotting an extension cord and then closing it up by inserting its plug into its outlet Knot theory is of central importance in pure and applied mathematics as it stands at a crossroads of topology combinatorics algebra mathematical physics and biochemistry Survey of mathematical knot theory Articles by leading world authorities Clear exposition not over technical Accessible to readers with undergraduate background in mathematics 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 A Course on Surgery Theory Stanley Chang, Shmuel Weinberger, 2021-01-26 Princeton University Press is proud to have published the

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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 New Trends in Geometric Analysis Antonio Alarcón, Vicente Palmer, César Rosales, 2023-10-18 The aim of this book is to provide an overview of some of the progress made by the Spanish Network of Geometric Analysis REAG by its Spanish acronym since its born in 2007 REAG was created with the objective of enabling the interchange of ideas and the knowledge transfer between several Spanish groups having Geometric Analysis as a common research line This includes nine groups at Universidad Aut noma de Barcelona Universidad Aut noma de Madrid Universidad de Granada Universidad Jaume I de Castell n Universidad de Murcia Universidad de Santiago de Compostela and Universidad de Valencia The success of REAG has been substantiated with regular meetings and the publication of research papers obtained in collaboration between the members of different nodes On the occasion of the 15th anniversary of REAG this book aims to collect some old and new contributions of this network to Geometric Analysis The book consists of thirteen independent chapters all of them authored by current members of REAG The topics under study cover geometric flows constant mean curvature surfaces in Riemannian and sub Riemannian spaces integral geometry potential theory and Riemannian geometry among others Some of these chapters have been written in collaboration between members of different nodes of the network and show the fruitfulness of the common research atmosphere provided by REAG The rest of the chapters survey a research line or present recent progresses within a group of those forming REAG Surveying several research lines and offering new directions in the field the volume is addressed to researchers including postdocs and PhD students in Geometric Analysis in the large The Mathematical Legacy of Victor Lomonosov Richard M. Aron, Eva A. Gallardo Gutiérrez, Miguel Martin, Dmitry Ryabogin, Ilya M. Spitkovsky, Artem Zvavitch, 2020-08-10 The fundamental contributions made by the late Victor Lomonosov in several areas of analysis are revisited in this book in particular by

presenting new results and future directions from world recognized specialists in the field The invariant subspace problem Burnside s theorem and the Bishop Phelps theorem are discussed in detail This volume is an essential reference to both researchers and graduate students in mathematical analysis **Introduction to Lipschitz Geometry of Singularities** Walter Neumann, Anne Pichon, 2021-01-11 This book presents a broad overview of the important recent progress which led to the emergence of new ideas in Lipschitz geometry and singularities and started to build bridges to several major areas of singularity theory Providing all the necessary background in a series of introductory lectures it also contains Pham and Teissier's previously unpublished pioneering work on the Lipschitz classification of germs of plane complex algebraic curves While a real or complex algebraic variety is topologically locally conical it is in general not metrically conical there are parts of its link with non trivial topology which shrink faster than linearly when approaching the special point The essence of the Lipschitz geometry of singularities is captured by the problem of building classifications of the germs up to local bi Lipschitz homeomorphism The Lipschitz geometry of a singular space germ is then its equivalence class in this category The book is aimed at graduate students and researchers from other fields of geometry who are interested in studying the multiple open questions offered by this new subject God and the Universe Arthur Gibson, 2013-10-11 This is a publicity title in the light of the latest scientific discoveries Publication strongly supported by Jacques Derrida who will provide endorsement for cover and Martin Rees astronomer royal Attractively illustrated throughout **Complexity and Emergence** Sergio Albeverio, Elisa Mastrogiacomo, Emanuela Rosazza Gianin, Stefania Ugolini, 2022-05-07 This book includes contributions about mathematics physics philosophy of science economics and finance and resulted from the Summer School Complexity and Emergence Ideas Methods with a Special Attention to Economics and Finance held in Lake Como School of Advanced Studies on 22 27 July 2018 The aim of the book is to provide useful instruments from the theory of complex systems both on the theoretical level and the methodological ones profiting from knowledge and insights from leading experts of different communities It moves from the volume editors conviction that to achieve progress in understanding socio economical as well as ecological problems of our complex word such preparation is needed together with a critical reconsideration of our basic scientific and economical approach The potential readers are primarily master and doctorate students of mathematics information sciences theoretical physics and economics as well as research workers in those areas who want to enlarge their spectrum of knowledge towards the area of complexity and emergence Since ideas and methods of the theory of complex systems also apply to other areas from engineering and architecture to biology and medicine e g students and research workers from those areas will also profit from this book Invariants of Boundary Link Cobordism Desmond Sheiham, 2003 An n dimensional mu component boundary link is a codimension 2 embedding of spheres L sqcup mu S DEGREESn subset S DEGREES n 2 such that there exist mu disjoint oriented embedded n 1 manifolds which span the components of L This title proceeds to compute the isomorphism class of C Algebraic and Geometric Topology, Part 2 R. James

Milgram, American Mathematical Society, 1978 Contains sections on Structure of topological manifolds Low dimensional manifolds Geometry of differential manifolds and algebraic varieties H spaces loop spaces and CW complexes Problems

Handbook of Geometry and Topology of Singularities II José Luis Cisneros-Molina, Dũng Tráng Lê, José Seade, 2021-11-01 This is the second volume of the Handbook of the Geometry and Topology of Singularities a series which aims to provide an accessible account of the state of the art of the subject its frontiers and its interactions with other areas of research This volume consists of ten chapters which provide an in depth and reader friendly survey of some of the foundational aspects of singularity theory and related topics Singularities are ubiquitous in mathematics and science in general Singularity theory interacts energetically with the rest of mathematics acting as a crucible where different types of mathematical problems interact surprising connections are born and simple questions lead to ideas which resonate in other parts of the subject and in other subjects Authored by world experts the various contributions deal with both classical material and modern developments covering a wide range of topics which are linked to each other in fundamental ways The book is addressed to graduate students and newcomers to the theory as well as to specialists who can use it as a guidebook

Boletín de la Sociedad Matemática Mexicana Sociedad Matemática Mexicana,2004 Su Geometry Huai-Dong Cao, Shing-Tung Yau, 2009 Annals of Mathematics Studies ,1940

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