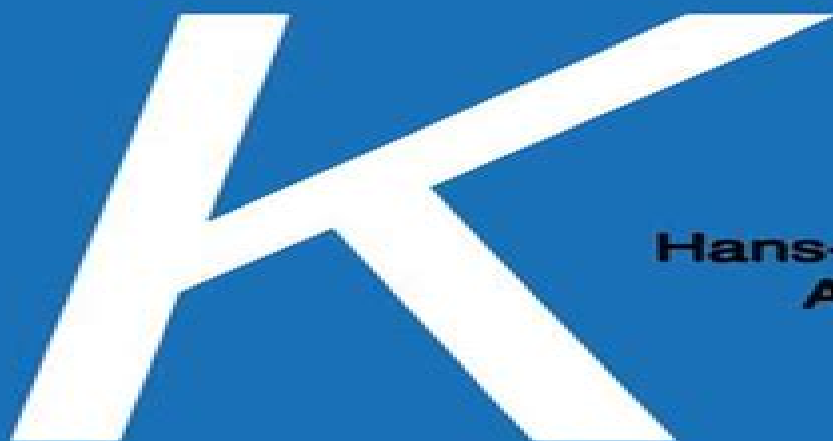


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Infinite Homotopy Theory H-J. Baues, A. Quintero, 2001-06-30 This book deals with algebraic topology homotopy theory and simple homotopy theory of infinite CW complexes with ends Contrary to most other works on these subjects the current volume does not use inverse systems to treat these topics Here the homotopy theory is approached without the rather sophisticated notion of pro category Spaces with ends are studied only by using appropriate constructions such as spherical objects of CW complexes in the category of spaces with ends and all arguments refer directly to this category In this way infinite homotopy theory is presented as a natural extension of classical homotopy theory In particular this book introduces the construction of the proper groupoid of a space with ends and then the cohomology with local coefficients is defined by the enveloping ringoid of the proper fundamental groupoid This volume will be of interest to researchers whose work involves algebraic topology category theory homological algebra general topology manifolds and cell complexes

Geometric Methods in Group Theory José Burillo, 2005 This volume presents articles by speakers and participants in two AMS special sessions Geometric Group Theory and Geometric Methods in Group Theory held respectively at Northeastern University Boston MA and at Universidad de Sevilla Spain The expository and survey articles in the book cover a wide range of topics making it suitable for researchers and graduate students interested in group theory

Smooth Homotopy of Infinite-Dimensional C^∞ -Manifolds Hiroshi Kihara, 2023-09-27 View the abstract

An Alpine Anthology of Homotopy Theory Dominique Arlettaz, Kathryn Hess, 2006 The second Arolla conference on algebraic topology brought together specialists covering a wide range of homotopy theory and K theory These proceedings reflect both the variety of talks given at the conference and the diversity of promising research directions in homotopy theory The articles contained in this volume include significant contributions to classical unstable homotopy theory model category theory equivariant homotopy theory and the homotopy theory of fusion systems as well as to K theory of both local fields and C algebras

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Handbook of Homotopy Theory Haynes Miller, 2020-01-23 The Handbook of Homotopy Theory provides a panoramic view of an active area in mathematics that is currently seeing dramatic solutions to long standing open problems and is proving itself of increasing importance across many other mathematical disciplines The origins of the subject date back to work of Henri Poincaré and Heinz Hopf in the early 20th century but it has seen enormous progress in the 21st century A highlight of this volume is an introduction to and diverse applications of the newly established foundational theory of categories The coverage is vast ranging from axiomatic to applied from foundational to computational and includes surveys of applications both geometric and algebraic The contributors are among the most active and creative researchers in the field The 22 chapters by 31 contributors are designed to address novices as well as established

mathematicians interested in learning the state of the art in this field whose methods are of increasing importance in many other areas

Global Homotopy Theory Stefan Schwede, 2018-09-06 A comprehensive self contained approach to global equivariant homotopy theory with many detailed examples and sample calculations

Manifolds and K -Theory Gregory Arone, Brenda Johnson, Pascal Lambrechts, Brian A. Munson, Ismar Volić, 2017-01-24 This volume contains the proceedings of the conference on Manifolds Theory and Related Topics held from June 23 27 2014 in Dubrovnik Croatia The articles contained in this volume are a collection of research papers featuring recent advances in homotopy theory and their applications to manifolds Topics covered include homotopy and manifold calculus structured spectra and their applications to group theory and the geometry of manifolds This volume is a tribute to the influence of Tom Goodwillie in these fields

Topology at Infinity of Discrete Groups Ross Geoghegan, Craig R. Guilbault, Kim Ruane, 2025-02-07 This volume contains the proceedings of the AMS Special Session on Ends and Boundaries of Groups held in honor of Michael Mihalik's 70th birthday on April 15 16 2023 at the University of Cincinnati Cincinnati Ohio The papers cover current topics in geometric group theory and related topology Four survey papers discuss hyperbolic actions CAT 0 groups Thompson type groups and Z set boundaries Other papers cover new material related to hyperbolic groups Poincaré Duality groups outer automorphism groups right angled Artin groups and mapping class groups Several papers present new results on ends of spaces and related group theory A notable addition intended for readers interested in the interplay of topology and group theory is a self contained detailed exposition of Z sets and their role in geometric group theory

From Categories to Homotopy Theory Birgit Richter, 2020-04-16 Category theory provides structure for the mathematical world and is seen everywhere in modern mathematics With this book the author bridges the gap between pure category theory and its numerous applications in homotopy theory providing the necessary background information to make the subject accessible to graduate students or researchers with a background in algebraic topology and algebra The reader is first introduced to category theory starting with basic definitions and concepts before progressing to more advanced themes Concrete examples and exercises illustrate the topics ranging from colimits to constructions such as the Day convolution product Part II covers important applications of category theory giving a thorough introduction to simplicial objects including an account of quasi-categories and Segal sets Diagram categories play a central role throughout the book giving rise to models of iterated loop spaces and feature prominently in functor homology and homology of small categories

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

More Concise Algebraic Topology J. P. May, K. Ponto, 2012-02 With firm foundations dating only from the 1950s algebraic topology is a relatively young area of mathematics There are very few textbooks that treat fundamental topics beyond a first course and many topics now essential to the field are not treated in any textbook J Peter May's *A Concise Course in Algebraic Topology* addresses the standard first course material such as fundamental groups covering spaces the basics of homotopy theory and homology and cohomology In this sequel May and his coauthor Kathleen Ponto cover topics that are essential for algebraic topologists and others interested in algebraic topology but that are not treated in standard texts They focus on the localization and completion of topological spaces model categories and Hopf algebras The first half of the book sets out the basic theory of localization and completion of nilpotent spaces using the most elementary treatment the authors know of It makes no use of simplicial techniques or model categories and it provides full details of other necessary preliminaries With these topics as motivation most of the second half of the book sets out the theory of model categories which is the central organizing framework for homotopical algebra in general Examples from topology and homological algebra are treated in parallel A short last part develops the basic theory of bialgebras and Hopf algebras

The Adams Spectral Sequence for Topological Modular Forms Robert R. Bruner, John Rognes, 2021-09-30 The connective topological modular forms spectrum tmf is in a sense initial among elliptic spectra and as such is an important link between the homotopy groups of spheres and modular forms A primary goal of this volume is to give a complete account with full proofs of the homotopy of tmf and several tmf module spectra by means of the classical Adams spectral sequence thus verifying correcting and extending existing approaches In the process folklore results are made precise and generalized Anderson and Brown Comenetz duality and the corresponding dualities in homotopy groups are carefully proved The volume also includes an account of the homotopy groups of spheres through degree 44 with complete proofs except that the Adams conjecture is used without proof Also presented are modern stable proofs of classical results which are hard to extract from the literature Tools used in this book include a multiplicative spectral sequence generalizing a construction of Davis and Mahowald and computer software which computes the cohomology of modules over the Steenrod algebra and products therein Techniques from commutative algebra are used to make the calculation precise and finite The H ring structure of the sphere and of tmf are used to determine many differentials and relations

Isomorphism Conjectures in K- and L-Theory Wolfgang Lück, 2025-09-30 This monograph is devoted to the Isomorphism Conjectures formulated by Baum and Connes and by Farrell and Jones These conjectures are central to the study of the topological K theory of reduced group C algebras and the algebraic K and L theory of group rings

They have far reaching applications in algebra geometry group theory operator theory and topology The book provides a detailed account of the development of these conjectures their current status methods of proof and their wide ranging implications These conjectures are not only powerful tools for concrete computations but also play a crucial role in proving other major conjectures Among these are the Borel Conjecture on the topological rigidity of aspherical closed manifolds the stable Gromov Lawson Rosenberg Conjecture on the existence of Riemannian metrics with positive scalar curvature on closed Spin manifolds Kaplansky's Idempotent Conjecture and the related Kadison Conjecture the Novikov Conjecture on the homotopy invariance of higher signatures and conjectures concerning the vanishing of the reduced projective class group and the Whitehead group of torsionfree groups

Bimonoidal Categories, E_n -Monoidal Categories, and Algebraic K-Theory Niles Johnson, Donald Yau, 2024-10-23

Bimonoidal categories are categorical analogues of rings without additive inverses They have been actively studied in category theory homotopy theory and algebraic K theory since around 1970 There is an abundance of new applications and questions of bimonoidal categories in mathematics and other sciences The three books published by the AMS in the Mathematical Surveys and Monographs series under the title Bimonoidal Categories E_n Monoidal Categories and Algebraic K Theory Volume I Symmetric Bimonoidal Categories and Monoidal Bicategories Volume II Braided Bimonoidal Categories with Applications and Volume III From Categories to Structured Ring Spectra this book provide a unified treatment of bimonoidal and higher ring like categories their connection with algebraic K theory and homotopy theory and applications to quantum groups and topological quantum computation With ample background material extensive coverage detailed presentation of both well known and new theorems and a list of open questions this work is a user friendly resource for beginners and experts alike Part 1 of this book is a detailed study of enriched monoidal categories pointed diagram categories and enriched multicategories Using this machinery Part 2 discusses the rich interconnection between the higher ring like categories homotopy theory and algebraic K theory Starting with a chapter on homotopy theory background the first half of Part 2 constructs the Segal K theory functor and the Elmendorf Mandell K theory multifunctor from permutative categories to symmetric spectra For the latter the detailed treatment here includes identification and correction of some subtle errors concerning its extended domain The second half applies the K theory multifunctor to small ring bipermutative braided ring and E_n monoidal categories to obtain respectively strict ring E_{∞} E_2 and E_n symmetric spectra

Bimonoidal Categories, E_n -Monoidal Categories, and Algebraic K-Theory Donald Yau, 2024-10-11

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with Applications this book and Volume III From Categories to Structured Ring Spectra provide a unified treatment of bimonoidal and higher ring like categories their connection with algebraic K theory and homotopy theory and applications to quantum groups and topological quantum computation With ample background material extensive coverage detailed presentation of both well known and new theorems and a list of open questions this work is a user friendly resource for beginners and experts alike Part 1 of this book studies braided bimonoidal categories with applications to quantum groups and topological quantum computation It is proved that the categories of modules over a braided bialgebra of Fibonacci anyons and of Ising anyons form braided bimonoidal categories Two coherence theorems for braided bimonoidal categories are proved confirming the Blass Gurevich Conjecture The rest of this part discusses braided analogues of Baez's Conjecture and the monoidal bicategorical matrix construction in Volume I Symmetric Bimonoidal Categories and Monoidal Bicategories Part 2 studies ring and bipermutative categories in the sense of Elmendorf Mandell braided ring categories and E_n monoidal categories which combine n fold monoidal categories with ring categories

Handbook of Combinatorics Volume 1 Ronald L. Graham, Martin Grötschel, László Lovász, 1995-12-11 Handbook of Combinatorics Volume 1 focuses on basic methods paradigms results issues and trends across the broad spectrum of combinatorics The selection first elaborates on the basic graph theory connectivity and network flows and matchings and extensions Discussions focus on stable sets and claw free graphs nonbipartite matching multicommodity flows and disjoint paths minimum cost circulations and flows special proof techniques for paths and circuits and Hamilton paths and circuits in digraphs The manuscript then examines coloring stable sets and perfect graphs and embeddings and minors The book takes a look at random graphs hypergraphs partially ordered sets and matroids Topics include geometric lattices structural properties linear extensions and correlation dimension and posets of bounded degree hypergraphs and set systems stability transversals and matchings and phase transition The manuscript also reviews the combinatorial number theory point lattices convex polytopes and related complexes and extremal problems in combinatorial geometry The selection is a valuable reference for researchers interested in combinatorics

Operads: Proceedings of Renaissance Conferences Jean-Louis Loday, 1997

Handbook of Combinatorics Volume 1 Bozzano G Luisa, 1995-12-11 Handbook of Combinatorics Volume 1 focuses on basic methods paradigms results issues and trends across the broad spectrum of combinatorics The selection first elaborates on the basic graph theory connectivity and network flows and matchings and extensions Discussions focus on stable sets and claw free graphs nonbipartite matching multicommodity flows and disjoint paths minimum cost circulations and flows special proof techniques for paths and circuits and Hamilton paths and circuits in digraphs The manuscript then examines coloring stable sets and perfect graphs and embeddings and minors The book takes a look at random graphs hypergraphs partially ordered sets and matroids Topics include geometric lattices structural properties linear extensions and correlation dimension and posets of bounded degree hypergraphs and set systems stability transversals and matchings and phase transition The

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