

Graduate Texts in Mathematics

William S. Massey

**Singular
Homology Theory**



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Singular Homology Theory Graduate Texts In Mathematics Volume 7

John M. Lee



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Homology Theory James W. Vick, 1994-01-07 This introduction to some basic ideas in algebraic topology is devoted to the foundations and applications of homology theory After the essentials of singular homology and some important applications are given successive topics covered include attaching spaces finite CW complexes cohomology products manifolds Poincare duality and fixed point theory This second edition includes a chapter on covering spaces and many new exercises

Fundamentals of Algebraic Topology Steven H. Weintraub, 2014-10-31 This rapid and concise presentation of the essential ideas and results of algebraic topology follows the axiomatic foundations pioneered by Eilenberg and Steenrod The approach of the book is pragmatic while most proofs are given those that are particularly long or technical are omitted and results are stated in a form that emphasizes practical use over maximal generality Moreover to better reveal the logical structure of the subject the separate roles of algebra and topology are illuminated Assuming a background in point set topology *Fundamentals of Algebraic Topology* covers the canon of a first year graduate course in algebraic topology the fundamental group and covering spaces homology and cohomology CW complexes and manifolds and a short introduction to homotopy theory Readers wishing to deepen their knowledge of algebraic topology beyond the fundamentals are guided by a short but carefully annotated bibliography

Singular Homology Theory W.S. Massey, 2012-12-06 This textbook on homology and cohomology theory is geared towards the beginning graduate student Singular homology theory is developed systematically avoiding all unnecessary definitions terminology and technical machinery Wherever possible the geometric motivation behind various algebraic concepts is emphasized The only formal prerequisites are knowledge of the basic facts of abelian groups and point set topology *Singular Homology Theory* is a continuation of the author's earlier book *Algebraic Topology An Introduction* which presents such important supplementary material as the theory of the fundamental group and a thorough discussion of 2 dimensional manifolds However this earlier book is not a prerequisite for understanding *Singular Homology Theory*

Differential Forms in Algebraic Topology Raoul Bott, Loring W. Tu, 2013-04-17 Developed from a first year graduate course in algebraic topology this text is an informal introduction to some of the main ideas of contemporary homotopy and cohomology theory The materials are structured around four core areas de Rham theory the Čech de Rham complex spectral sequences and characteristic classes By using the de Rham theory of differential forms as a prototype of cohomology the machineries of algebraic topology are made easier to assimilate With its stress on concreteness motivation and readability this book is equally suitable for self study and as a one semester course in topology

A Basic Course in Algebraic Topology William S. Massey, 2019-06-28 This textbook is intended for a course in algebraic topology at the beginning graduate level The main topics covered are the classification of compact 2 manifolds the fundamental group covering spaces singular homology theory and singular cohomology theory These topics are developed systematically avoiding all unnecessary definitions terminology and technical machinery The text consists of material from the first five

chapters of the author's earlier book Algebraic Topology an Introduction GTM 56 together with almost all of his book Singular Homology Theory GTM 70 The material from the two earlier books has been substantially revised corrected and brought up to date

Knots and Primes Masanori Morishita, 2011-11-27 This is a foundation for arithmetic topology a new branch of mathematics which is focused upon the analogy between knot theory and number theory Starting with an informative introduction to its origins namely Gauss this text provides a background on knots three manifolds and number fields Common aspects of both knot theory and number theory for instance knots in three manifolds versus primes in a number field are compared throughout the book These comparisons begin at an elementary level slowly building up to advanced theories in later chapters Definitions are carefully formulated and proofs are largely self contained When necessary background information is provided and theory is accompanied with a number of useful examples and illustrations making this a useful text for both undergraduates and graduates in the field of knot theory number theory and geometry

Introduction to Smooth Manifolds John M. Lee, 2013-03-09 Manifolds are everywhere These generalizations of curves and surfaces to arbitrarily many dimensions provide the mathematical context for understanding space in all of its manifestations Today the tools of manifold theory are indispensable in most major subfields of pure mathematics and outside of pure mathematics they are becoming increasingly important to scientists in such diverse fields as genetics robotics econometrics computer graphics biomedical imaging and of course the undisputed leader among consumers and inspirers of mathematics theoretical physics No longer a specialized subject that is studied only by differential geometers manifold theory is now one of the basic skills that all mathematics students should acquire as early as possible Over the past few centuries mathematicians have developed a wondrous collection of conceptual machines designed to enable us to peer ever more deeply into the invisible world of geometry in higher dimensions Once their operation is mastered these powerful machines enable us to think geometrically about the 6 dimensional zero set of a polynomial in four complex variables or the 10 dimensional manifold of 5×5 orthogonal matrices as easily as we think about the familiar 2 dimensional sphere in \mathbb{R}^3

Advanced Łukasiewicz calculus and MV-algebras D. Mundici, 2011-06-22 This is a continuation of Vol 7 of Trends in Logic It will cover the wealth of recent developments of Łukasiewicz Logic and their algebras Chang MV algebras with particular reference to de Finetti coherent evaluation of continuously valued events Renyi conditionals for such events related algorithms

A Course in Convexity Alexander Barvinok, 2002-11-19 Convexity is a simple idea that manifests itself in a surprising variety of places This fertile field has an immensely rich structure and numerous applications Barvinok demonstrates that simplicity intuitive appeal and the universality of applications make teaching and learning convexity a gratifying experience The book will benefit both teacher and student It is easy to understand entertaining to the reader and includes many exercises that vary in degree of difficulty Overall the author demonstrates the power of a few simple unifying principles in a variety of pure and applied problems The prerequisites are minimal amounts of linear algebra analysis and

elementary topology plus basic computational skills Portions of the book could be used by advanced undergraduates As a whole it is designed for graduate students interested in mathematical methods computer science electrical engineering and operations research The book will also be of interest to research mathematicians who will find some results that are recent some that are new and many known results that are discussed from a new perspective

Lecture Notes in Algebraic Topology James Frederic Davis, Paul Kirk, 2001 The amount of algebraic topology a graduate student specializing in topology must learn can be intimidating Moreover by their second year of graduate studies students must make the transition from understanding simple proofs line by line to understanding the overall structure of proofs of difficult theorems To help students make this transition the material in this book is presented in an increasingly sophisticated manner It is intended to bridge the gap between algebraic and geometric topology both by providing the algebraic tools that a geometric topologist needs and by concentrating on those areas of algebraic topology that are geometrically motivated Prerequisites for using this book include basic set theoretic topology the definition of CW complexes some knowledge of the fundamental group covering space theory and the construction of singular homology Most of this material is briefly reviewed at the beginning of the book The topics discussed by the authors include typical material for first and second year graduate courses The core of the exposition consists of chapters on homotopy groups and on spectral sequences There is also material that would interest students of geometric topology homology with local coefficients and obstruction theory and algebraic topology spectra and generalized homology as well as preparation for more advanced topics such as algebraic K theory and the s cobordism theorem A unique feature of the book is the inclusion at the end of each chapter of several projects that require students to present proofs of substantial theorems and to write notes accompanying their explanations Working on these projects allows students to grapple with the big picture teaches them how to give mathematical lectures and prepares them for participating in research seminars The book is designed as a textbook for graduate students studying algebraic and geometric topology and homotopy theory It will also be useful for students from other fields such as differential geometry algebraic geometry and homological algebra The exposition in the text is clear special cases are presented over complex general statements

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

Elements of Homotopy Theory George W. Whitehead, 2012-12-06 As the title suggests this book is concerned with the elementary portion of the subject of homotopy theory It is assumed that the reader is familiar with the fundamental group and with singular homology theory including the Universal Coefficient and Künneth Theorems Some acquaintance with manifolds and Poincaré duality is desirable but not essential Anyone who has taught a course in algebraic topology is familiar with the fact that a formidable amount of technical machinery must be introduced and mastered before the simplest applications can be made This phenomenon is also observable in the more advanced parts of the subject I have attempted to short circuit it by making maximal use of elementary methods This approach entails a leisurely exposition in which brevity and perhaps elegance are sacrificed in favor of concreteness and ease of application It is my hope that this approach will make homotopy theory accessible to workers in a wide range of other subjects subjects in which its impact is beginning to be felt It is a consequence of this approach that the order of development is to a certain extent historical Indeed if the order in which the results presented here does not strictly correspond to that in which they were discovered it nevertheless does correspond to an order in which they might have been discovered had those of us who were working in the area been a little more perspicacious

Singular Intersection Homology Greg Friedman, 2020-09-24 Intersection homology is a version of homology theory that extends Poincaré duality and its applications to stratified spaces such as singular varieties This is the first comprehensive expository book length introduction to intersection homology from the viewpoint of singular and piecewise linear chains Recent breakthroughs have made this approach viable by providing intersection homology and cohomology versions of all the standard tools in the homology tool box making the subject readily accessible to graduate students and researchers in topology as well as researchers from other fields This text includes both new research material and new proofs of previously known results in intersection homology as well as treatments of many classical topics in algebraic and manifold topology Written in a detailed but expository style this book is suitable as an introduction to intersection homology or as a thorough reference

Differential Algebraic Topology Matthias Kreck, 2010 This book presents a geometric introduction to the homology of topological spaces and the cohomology of smooth manifolds

The author introduces a new class of stratified spaces so called stratifolds He derives basic concepts from differential topology such as Sard s theorem partitions of unity and transversality Based on this homology groups are constructed in the framework of stratifolds and the homology axioms are proved This implies that for nice spaces these homology groups agree with ordinary singular homology Besides the standard computations of homology groups using the axioms straightforward constructions of important homology classes are given The author also defines stratifold cohomology groups following an idea of Quillen Again certain important cohomology classes occur very naturally in this description for example the characteristic classes which are constructed in the book and applied later on One of the most fundamental results Poincare duality is almost a triviality in this approach Some fundamental invariants such as the Euler characteristic and the signature are derived from co homology groups These invariants play a significant role in some of the most spectacular results in differential topology In particular the author proves a special case of Hirzebruch s signature theorem and presents as a highlight Milnor s exotic 7 spheres This book is based on courses the author taught in Mainz and Heidelberg Readers should be familiar with the basic notions of point set topology and differential topology The book can be used for a combined introduction to differential and algebraic topology as well as for a quick presentation of co homology in a course about differential geometry

The Geometric Theory of Complex Variables Peter V. Dvobush, Steven G. Krantz, 2025-01-28 This book provides the reader with a broad introduction to the geometric methodology in complex analysis It covers both single and several complex variables creating a dialogue between the two viewpoints Regarded as one of the grand old ladies of modern mathematics complex analysis traces its roots back 500 years The subject began to flourish with Carl Friedrich Gauss s thesis around 1800 The geometric aspects of the theory can be traced back to the Riemann mapping theorem around 1850 with a significant milestone achieved in 1938 with Lars Ahlfors s geometrization of complex analysis These ideas inspired many other mathematicians to adopt this perspective leading to the proliferation of geometric theory of complex variables in various directions including Riemann surfaces Teichm ller theory complex manifolds extremal problems and many others This book explores all these areas with classical geometric function theory as its main focus Its accessible and gentle approach makes it suitable for advanced undergraduate and graduate students seeking to understand the connections among topics usually scattered across numerous textbooks as well as experienced mathematicians with an interest in this rich field

Intersection Homology & Perverse Sheaves Laurențiu G. Maxim, 2020-12-12 This textbook provides a gentle introduction to intersection homology and perverse sheaves where concrete examples and geometric applications motivate concepts throughout By giving a taste of the main ideas in the field the author welcomes new readers to this exciting area at the crossroads of topology algebraic geometry analysis and differential equations Those looking to delve further into the abstract theory will find ample references to facilitate navigation of both classic and recent literature Beginning with an introduction to intersection homology from a geometric and topological viewpoint the text goes on to develop the sheaf

theoretical perspective Then algebraic geometry comes to the fore a brief discussion of constructibility opens onto an in depth exploration of perverse sheaves Highlights from the following chapters include a detailed account of the proof of the Beilinson Bernstein Deligne Gabber BBDG decomposition theorem applications of perverse sheaves to hypersurface singularities and a discussion of Hodge theoretic aspects of intersection homology via Saito s deep theory of mixed Hodge modules An epilogue offers a succinct summary of the literature surrounding some recent applications Intersection Homology Perverse Sheaves is suitable for graduate students with a basic background in topology and algebraic geometry By building context and familiarity with examples the text offers an ideal starting point for those entering the field This classroom tested approach opens the door to further study and to current research

Homology Theory P. J. Hilton, S. Wylie, 1967 This account of algebraic topology is complete in itself assuming no previous knowledge of the subject It is used as a textbook for students in the final year of an undergraduate course or on graduate courses and as a handbook for mathematicians in other branches who want some knowledge of the subject

Singularities of integrals Frédéric Pham, 2011-04-22 Bringing together two fundamental texts from Frédéric Pham s research on singular integrals the first part of this book focuses on topological and geometrical aspects while the second explains the analytic approach Using notions developed by J Leray in the calculus of residues in several variables and R Thom s isotopy theorems Frédéric Pham s foundational study of the singularities of integrals lies at the interface between analysis and algebraic geometry culminating in the Picard Lefschetz formulae These mathematical structures enriched by the work of Nilsson are then approached using methods from the theory of differential equations and generalized from the point of view of hyperfunction theory and microlocal analysis Providing a must have introduction to the singularities of integrals a number of supplementary references also offer a convenient guide to the subjects covered This book will appeal to both mathematicians and physicists with an interest in the area of singularities of integrals Frédéric Pham now retired was Professor at the University of Nice He has published several educational and research texts His recent work concerns semi classical analysis and resurgent functions

Introduction to Topology V. A. Vasil'ev, 2001 This English translation of a Russian book presents the basic notions of differential and algebraic topology which are indispensable for specialists and useful for research mathematicians and theoretical physicists In particular ideas and results are introduced related to manifolds cell spaces coverings and fibrations homotopy groups homology and cohomology intersection index etc The author notes The lecture note origins of the book left a significant imprint on its style It contains very few detailed proofs I tried to give as many illustrations as possible and to show what really occurs in topology not always explaining why it occurs He concludes As a rule only those proofs or sketches of proofs that are interesting per se and have important generalizations are presented

Basic Concepts of Algebraic Topology Fred H. Croom, 1978 The text traces the development of algebraic topology from its inception in 1895 through the development of singular homology theory Primary topics include geometric complexes simplicial homology groups simplicial

mappings the fundamental group covering spaces and introductory singular homology theory as well as the higher homotopy groups and the homology sequence two areas seldom covered in introductory text The author develops many important applications including the fixed point theorems of Brouwer and Lefschetz vector fields on spheres and the covering homotopy property

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