

# Graduate Texts in Mathematics

**William S. Massey**

## **Singular Homology Theory**



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# Singular Homology Theory Graduate Texts In Mathematics

**Jean-Pierre Marquis**



## **Singular Homology Theory Graduate Texts In Mathematics:**

**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

**Homology Theory**, 1973-06-06 Homology Theory **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 **Homology Theory** James W. Vick, 2012-12-06 The 20 years since the publication of this book have been an era of continuing growth and development in the field of algebraic topology New generations of young mathematicians have been trained and classical problems have been solved particularly through the application of geometry and knot theory Diverse new resources for introductory coursework have appeared but there is persistent interest in an intuitive treatment of the basic ideas This second edition has been expanded through the addition of a chapter on covering spaces By analysis of the lifting problem it introduces the fundamental group and explores its properties including Van Kampen's Theorem and the relationship with the first homology group It has been inserted after the third chapter since it uses some definitions and results included prior to that point However much of the material is directly accessible from the same background as Chapter 1 so there would be some flexibility in how these topics are integrated into a course The Bibliography has been supplemented by the addition of selected books and historical articles that have appeared since 1973 **Singular Homology Theory** William S.

Massey, 1980 **Introduction to Piecewise-Linear Topology** Colin P. Rourke, B.J. Sanderson, 2012-12-06 The first five chapters of this book form an introductory course in piecewise linear topology in which no assumptions are made other than basic topological notions This course would be suitable as a second course in topology with a geometric flavour to follow a first course in point set topology and perhaps to be given as a final year undergraduate course The whole book gives an account of handle theory in a piecewise linear setting and could be the basis of a first year postgraduate lecture or reading

course Some results from algebraic topology are needed for handle theory and these are collected in an appendix In a second appen dix are listed the properties of Whitehead torsion which are used in the s cobordism theorem These appendices should enable a reader with only basic knowledge to complete the book The book is also intended to form an introduction to modern geo metric topology as a research subject a bibliography of research papers being included We have omitted acknowledgements and references from the main text and have collected these in a set of historical notes to be found after the appendices

*Advanced Łukasiewicz calculus and MV-algebras* D. Mundici, 2011-06-22 This is a continuation of Vol 7 of Trends in Logic It wil 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

*The Geometric Theory of Complex Variables* Peter V. Dovbush, 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

**Mathematical Implications of Einstein-Weyl Causality** Hans Jürgen Borchers, Rathindra Nath Sen, 2007-02-22 Here is a systematic approach to such fundamental questions as What mathematical structures does Einstein Weyl causality impose on a point set that has no other previous structure defined on it The author proposes an axiomatization of the physics inspired notion of Einstein Weyl causality and investigating the consequences in terms of possible topological spaces One significant result is that the notion of causality can effectively be extended to discontinuum

*Geometry and Topology of Manifolds: Surfaces and Beyond* Vicente Muñoz, Ángel González-Prieto, Juan Ángel Rojo, 2020-10-21 This book represents a novel approach to differential topology Its main focus is to give a comprehensive introduction to the classification of manifolds with special attention paid to the case of surfaces for which the book provides a complete classification from many points of view topological smooth constant curvature complex and conformal Each chapter briefly revisits basic results usually known to graduate students from an alternative perspective focusing on surfaces We provide full proofs of some remarkable results that sometimes are missed in basic courses e g the construction of triangulations on

surfaces the classification of surfaces the Gauss Bonnet theorem the degree genus formula for complex plane curves the existence of constant curvature metrics on conformal surfaces and we give hints to questions about higher dimensional manifolds Many examples and remarks are scattered through the book Each chapter ends with an exhaustive collection of problems and a list of topics for further study The book is primarily addressed to graduate students who did take standard introductory courses on algebraic topology differential and Riemannian geometry or algebraic geometry but have not seen their deep interconnections which permeate a modern approach to geometry and topology of manifolds

*Symplectic Invariants and Hamiltonian Dynamics* Helmut Hofer, Eduard Zehnder, 2012-12-06 The discoveries of the past decade have opened new perspectives for the old field of Hamiltonian systems and led to the creation of a new field symplectic topology Surprising rigidity phenomena demonstrate that the nature of symplectic map pings is very different from that of volume preserving mappings which raised new questions many of them still unanswered On the other hand due to the analysis of an old variational principle in classical mechanics global periodic phenomena in Hamiltonian systems have been established As it turns out these seemingly different phenomena are mysteriously related One of the links is a class of symplectic invariants called symplectic capacities These invariants are the main theme of this book which grew out of lectures given by the authors at Rutgers University the RUB Bochum and at the ETH Zurich 1991 and also at the Borel Seminar in Bern 1992 Since the lectures did not require any previous knowledge only a few and rather elementary topics were selected and proved in detail Moreover our selection has been prompted by a single principle the action principle of mechanics The action functional for loops in the phase space given by  $\int_0^1 \langle \dot{Y}, Y \rangle dt$  differs from the old Hamiltonian principle in the configuration space defined by a Lagrangian The critical points of  $F$  are those loops  $Y$  which solve the Hamiltonian equations associated with the Hamiltonian  $H$  and hence are the periodic orbits

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

**From a Geometrical Point of View** Jean-Pierre Marquis, 2008-11-20 From a Geometrical Point of View explores historical and philosophical aspects of category theory trying therewith to expose its

significance in the mathematical landscape The main thesis is that Klein's Erlangen program in geometry is in fact a particular instance of a general and broad phenomenon revealed by category theory The volume starts with Eilenberg and Mac Lane's work in the early 1940s and follows the major developments of the theory from this perspective Particular attention is paid to the philosophical elements involved in this development The book ends with a presentation of categorical logic some of its results and its significance in the foundations of mathematics From a Geometrical Point of View aims to provide its readers with a conceptual perspective on category theory and categorical logic in order to gain insight into their role and nature in contemporary mathematics It should be of interest to mathematicians logicians philosophers of mathematics and science in general historians of contemporary mathematics physicists and computer scientists **A User's**

**Guide to Spectral Sequences** John McCleary, 2001 Spectral sequences are among the most elegant and powerful methods of computation in mathematics This book describes some of the most important examples of spectral sequences and some of their most spectacular applications The first part treats the algebraic foundations for this sort of homological algebra starting from informal calculations The heart of the text is an exposition of the classical examples from homotopy theory with chapters on the Leray Serre spectral sequence the Eilenberg Moore spectral sequence the Adams spectral sequence and in this new edition the Bockstein spectral sequence The last part of the book treats applications throughout mathematics including the theory of knots and links algebraic geometry differential geometry and algebra This is an excellent reference for students and researchers in geometry topology and algebra Dynamical Systems Ludwig Arnold, Christopher K.R.T.

Jones, Konstantin Mischaikow, Genevieve Raugel, 2006-11-14 This volume contains the lecture notes written by the four principal speakers at the C I M E session on Dynamical Systems held at Montecatini Italy in June 1994 The goal of the session was to illustrate how methods of dynamical systems can be applied to the study of ordinary and partial differential equations Topics in random differential equations singular perturbations the Conley index theory and non linear PDEs were discussed Readers interested in asymptotic behavior of solutions of ODEs and PDEs and familiar with basic notions of dynamical systems will wish to consult this text **Rational Homotopy Theory** Yves Felix, Stephen Halperin, J.-C. Thomas, 2012-12-06

as well as by the list of open problems in the final section of this monograph The computational power of rational homotopy theory is due to the discovery by Quillen 135 and by Sullivan 144 of an explicit algebraic formulation In each case the rational homotopy type of a topological space is the same as the isomorphism class of its algebraic model and the rational homotopy type of a continuous map is the same as the algebraic homotopy class of the corresponding morphism between models These models make the rational homology and homotopy of a space transparent They also in principle always and in practice sometimes enable the calculation of other homotopy invariants such as the cup product in cohomology the Whitehead product in homotopy and rational Lusternik Schnirelmann category In its initial phase research in rational homotopy theory focused on the identification of these models These included the definition of rational homotopy invariants in terms of the

homotopy Lie algebra the translation of the Whitehead product to the homotopy groups of the loop space  $OX$  under the isomorphism  $\pi_1(X) \cong \pi_1(OX)$  category and cone length Since then however work has concentrated on the properties of these invariants and has uncovered some truly remarkable and previously unsuspected phenomena For example If  $X$  is an  $n$  dimensional simply connected finite CW complex then either its rational homotopy groups vanish in degrees  $2 \leq 2n$  or else they grow exponentially

**Harmonic Function Theory** Sheldon Axler, Paul Bourdon, Ramey Wade, 2013-11-11 This is a book about harmonic functions in Euclidean space Readers with a background in real and complex analysis at the beginning graduate level will feel comfortable with the material presented here The authors have taken unusual care to motivate concepts and simplify proofs Topics include basic properties of harmonic functions Poisson integrals the Kelvin transform spherical harmonics harmonic Hardy spaces harmonic Bergman spaces the decomposition theorem Laurent expansions isolated singularities and the Dirichlet problem The new edition contains a completely rewritten chapter on spherical harmonics a new section on extensions of Bocher's Theorem new exercises and proofs as well as revisions throughout to improve the text A unique software package designed by the authors and available by e-mail supplements the text for readers who wish to explore harmonic function theory on a computer

**Sheaf Theory** Glen E. Bredon, 2012-12-06 This book is primarily concerned with the study of cohomology theories of general topological spaces with general coefficient systems Sheaves play several roles in this study For example they provide a suitable notion of general coefficient systems Moreover they furnish us with a common method of defining various cohomology theories and of comparison between different cohomology theories The parts of the theory of sheaves covered here are those areas important to algebraic topology Sheaf theory is also important in other fields of mathematics notably algebraic geometry but that is outside the scope of the present book Thus a more descriptive title for this book might have been Algebraic Topology from the Point of View of Sheaf Theory Several innovations will be found in this book Notably the concept of the tautness of a subspace an adaptation of an analogous notion of Spanier to sheaf theoretic cohomology is introduced and exploited throughout the book The fact that sheaf theoretic cohomology satisfies the homotopy property is proved for general topological spaces Also relative cohomology is introduced into sheaf theory Concerning relative cohomology it should be noted that sheaf theoretic cohomology is usually considered as a single space theory

**An Introduction to Knot Theory** W.B. Raymond Lickorish, 1997-10-03 Exercises in each chapter

**An Introduction to Banach Space Theory** Robert E. Megginson, 1998-10-09 This book is an introduction to the general theory of Banach spaces designed to prepare the reader with a background in functional analysis that will enable him or her to tackle more advanced literature in the subject The book is replete with examples historical notes and citations as well as nearly 500 exercises

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