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# Homology of Cell Complexes



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# Homology Complexes Princeton Legacy Library

**Solomon Lefschetz**



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**Foundations of Algebraic Topology** Samuel Eilenberg, Norman Steenrod, 2015-12-08 The need for an axiomatic treatment of homology and cohomology theory has long been felt by topologists Professors Eilenberg and Steenrod present here for the first time an axiomatization of the complete transition from topology to algebra Originally published in 1952 The Princeton Legacy Library uses the latest print on demand technology to again make available previously out of print books from the distinguished backlist of Princeton University Press These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905

**Introduction to Topology** Solomon Lefschetz, 2015-12-08 In this book which may be used as a self contained text for a beginning course Professor Lefschetz aims to give the reader a concrete working knowledge of the central concepts of modern combinatorial topology complexes homology groups mappings in spheres homotopy transformations and their fixed points manifolds and duality theorems Each chapter ends with a group of problems Originally published in 1949 The Princeton Legacy Library uses the latest print on demand technology to again make available previously out of print books from the distinguished backlist of Princeton University Press These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905

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**Paperbound Books in Print** ,1969      *Books in Print Supplement* ,2002      **Algebraic Geometry and Topology** Ralph Hartzler Fox, 2015-12-08 Many of the developments of modern algebraic geometry and topology stem from the ideas of S Lefschetz These are featured in this volume of contemporary research papers contributed by mathematical colleagues to celebrate his seventieth birthday Originally published in 1957 The Princeton Legacy Library uses the latest print on demand

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*Casson's Invariant for Oriented Homology Three-Spheres* Selman Akbulut, John D. McCarthy, 2014-07-14. In the spring of 1985, A. Casson announced an interesting invariant of homology 3-spheres via constructions on representation spaces. This invariant generalizes the Rohlin invariant and gives surprising corollaries in low-dimensional topology. In the fall of that same year, Selman Akbulut and John McCarthy held a seminar on this invariant. These notes grew out of that seminar. The authors have tried to remain close to Casson's original outline and proceed by giving needed details, including an exposition of Newstead's results. They have often chosen classical concrete approaches over general methods. For example, they did not attempt to give gauge theory explanations for the results of Newstead; instead, they followed his original techniques. Originally published in 1990. The Princeton Legacy Library uses the latest print-on-demand technology to again make available previously out of print books from the distinguished backlist of Princeton University Press. These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions. The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905.

*Topics in Non-Commutative Geometry* Yuri I. Manin, 2014-07-14. There is a well-known correspondence between the objects of algebra and geometry: a space gives rise to a function algebra; a vector bundle over the space corresponds to a projective module over this algebra; cohomology can be read off the de Rham complex, and so on. In this book, Yuri Manin addresses a variety of instances in which the application of commutative algebra cannot be used to describe geometric objects, emphasizing the recent upsurge of activity in studying noncommutative rings as if they were function rings on noncommutative spaces. Manin begins by summarizing and giving examples of some of the ideas that led to the new concepts of noncommutative geometry, such as Connes' noncommutative de Rham complex, supergeometry, and quantum groups. He then discusses supersymmetric algebraic curves that arose in connection with superstring theory, examines superhomogeneous spaces, their Schubert cells, and superanalogues of Weyl groups, and provides an introduction to quantum groups. This book is intended for mathematicians and physicists with some background in Lie groups and complex geometry. Originally published in 1991. The Princeton Legacy Library uses the latest print-on-demand technology to again make available previously out of print books from the distinguished backlist of Princeton University Press. These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions. The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905.

**Topology of 4-Manifolds** Michael H.

Freedman, Frank Quinn, 2014-07-14 One of the great achievements of contemporary mathematics is the new understanding of four dimensions Michael Freedman and Frank Quinn have been the principals in the geometric and topological development of this subject proving the Poincaré and Annulus conjectures respectively Recognition for this work includes the award of the Fields Medal of the International Congress of Mathematicians to Freedman in 1986 In *Topology of 4 Manifolds* these authors have collaborated to give a complete and accessible account of the current state of knowledge in this field The basic material has been considerably simplified from the original publications and should be accessible to most graduate students The advanced material goes well beyond the literature nearly one third of the book is new This work is indispensable for any topologist whose work includes four dimensions It is a valuable reference for geometers and physicists who need an awareness of the topological side of the field Originally published in 1990 The Princeton Legacy Library uses the latest print on demand technology to again make available previously out of print books from the distinguished backlist of Princeton University Press These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905 [Dimension Theory](#)

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Peter Schenzel, Anne-Marie Simon, 2018-09-15 The aim of the present monograph is a thorough study of the adic completion its left derived functors and their relations to the local cohomology functors as well as several completeness criteria related questions and various dualities formulas A basic construction is the Čech complex with respect to a system of elements and its free resolution The study of its homology and cohomology will play a crucial role in order to understand left derived functors of completion and right derived functors of torsion This is useful for the extension and refinement of results known for modules to unbounded complexes in the more general setting of not necessarily Noetherian rings The book is divided into three parts The first one is devoted to modules where the adic completion functor is presented in full details with generalizations of some previous completeness criteria for modules Part II is devoted to the study of complexes Part III is mainly concerned with duality starting with those between completion and torsion and leading to new aspects of various dualizing complexes The Appendix covers various additional and complementary aspects of the previous investigations and also provides examples showing the necessity of the assumptions The book is directed to readers interested in recent

progress in Homological and Commutative Algebra Necessary prerequisites include some knowledge of Commutative Algebra and a familiarity with basic Homological Algebra The book could be used as base for seminars with graduate students interested in Homological Algebra with a view towards recent research     Riemann Surfaces Lars Valerian Ahlfors, Leo Sario, 2015-12-08 The theory of Riemann surfaces has a geometric and an analytic part The former deals with the axiomatic definition of a Riemann surface methods of construction topological equivalence and conformal mappings of one Riemann surface on another The analytic part is concerned with the existence and properties of functions that have a special character connected with the conformal structure for instance subharmonic harmonic and analytic functions Originally published in 1960 The Princeton Legacy Library uses the latest print on demand technology to again make available previously out of print books from the distinguished backlist of Princeton University Press These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905     **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     **Casson's Invariant for Oriented Homology 3-spheres** Selman Akbulut, 2014     Notes on Cobordism Theory Robert E. Stong, 2015-12-08 These notes contain the first complete treatment of cobordism a topic that has become increasingly important in the past ten years The subject is fully developed and the latest theories are treated Originally published in 1968 The Princeton Legacy Library uses the latest print on demand technology to again make available previously out of print books from the distinguished backlist of Princeton University Press These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905

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