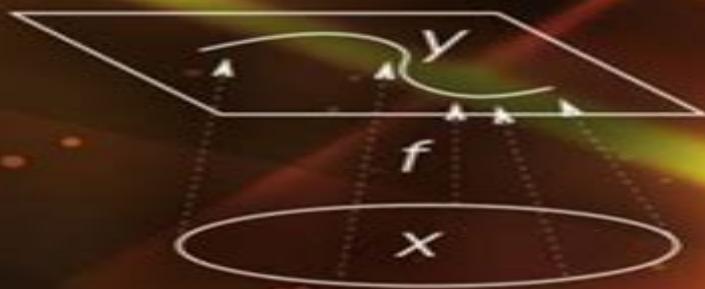


# Basic Algebraic Topology



Anant R. Shastri

# Basic Concepts Of Algebraic Topology

**Jean H Gallier, Jocelyn Quaintance**



## **Basic Concepts Of Algebraic Topology:**

**Basic Concepts of Algebraic Topology** F.H. Croom, 2012-12-06 This text is intended as a one semester introduction to algebraic topology at the undergraduate and beginning graduate levels Basically it covers simplicial homology theory the fundamental group covering spaces the higher homotopy groups and introductory singular homology theory The text follows a broad historical outline and uses the proofs of the discoverers of the important theorems when this is consistent with the elementary level of the course This method of presentation is intended to reduce the abstract nature of algebraic topology to a level that is palatable for the beginning student and to provide motivation and cohesion that are often lacking in abstract treatments The text emphasizes the geometric approach to algebraic topology and attempts to show the importance of topological concepts by applying them to problems of geometry and analysis The prerequisites for this course are calculus at the sophomore level a one semester introduction to the theory of groups a one semester introduction to point set topology and some familiarity with vector spaces Outlines of the prerequisite material can be found in the appendices at the end of the text It is suggested that the reader not spend time initially working on the appendices but rather that he read from the beginning of the text referring to the appendices as his memory needs refreshing The text is designed for use by college juniors of normal intelligence and does not require mathematical maturity beyond the junior level

**Basic Concepts of Algebraic Topology** F. H. Croom, 1978-03-18 [Basic Algebraic Topology and its Applications](#) Mahima Ranjan Adhikari, 2016-09-16 This book provides an accessible introduction to algebraic topology a field at the intersection of topology geometry and algebra together with its applications Moreover it covers several related topics that are in fact important in the overall scheme of algebraic topology Comprising eighteen chapters and two appendices the book integrates various concepts of algebraic topology supported by examples exercises applications and historical notes Primarily intended as a textbook the book offers a valuable resource for undergraduate postgraduate and advanced mathematics students alike Focusing more on the geometric than on algebraic aspects of the subject as well as its natural development the book conveys the basic language of modern algebraic topology by exploring homotopy homology and cohomology theories and examines a variety of spaces spheres projective spaces classical groups and their quotient spaces function spaces polyhedra topological groups Lie groups and cell complexes etc The book studies a variety of maps which are continuous functions between spaces It also reveals the importance of algebraic topology in contemporary mathematics theoretical physics computer science chemistry economics and the biological and medical sciences and encourages students to engage in further study

*Lectures on Algebraic Topology* Sergei Vladimirovich Matveev, 2006 Algebraic topology is the study of the global properties of spaces by means of algebra It is an important branch of modern mathematics with a wide degree of applicability to other fields including geometric topology differential geometry functional analysis differential equations algebraic geometry number theory and theoretical physics This book provides an introduction to the basic concepts and methods of algebraic topology for

the beginner It presents elements of both homology theory and homotopy theory and includes various applications The author's intention is to rely on the geometric approach by appealing to the reader's own intuition to help understanding The numerous illustrations in the text also serve this purpose Two features make the text different from the standard literature first special attention is given to providing explicit algorithms for calculating the homology groups and for manipulating the fundamental groups Second the book contains many exercises all of which are supplied with hints or solutions This makes the book suitable for both classroom use and for independent study

Algebraic Topology Tammo tom Dieck, 2008 This book is written as a textbook on algebraic topology The first part covers the material for two introductory courses about homotopy and homology The second part presents more advanced applications and concepts duality characteristic classes homotopy groups of spheres bordism The author recommends starting an introductory course with homotopy theory For this purpose classical results are presented with new elementary proofs Alternatively one could start more traditionally with singular and axiomatic homology Additional chapters are devoted to the geometry of manifolds cell complexes and fibre bundles A special feature is the rich supply of nearly 500 exercises and problems Several sections include topics which have not appeared before in textbooks as well as simplified proofs for some important results Prerequisites are standard point set topology as recalled in the first chapter elementary algebraic notions modules tensor product and some terminology from category theory The aim of the book is to introduce advanced undergraduate and graduate master's students to basic tools concepts and results of algebraic topology Sufficient background material from geometry and algebra is included

**Algebraic Topology** Edwin H. Spanier, Edwin Henry Spanier, 1989 This book surveys the fundamental ideas of algebraic topology The first part covers the fundamental group its definition and application in the study of covering spaces The second part turns to homology theory including cohomology cup products cohomology operations and topological manifolds The final part is devoted to Homotopy theory including basic facts about homotopy groups and applications to obstruction theory

*An Introduction to Algebraic Topology* Joseph Rotman, 1998-07-22 A clear exposition with exercises of the basic ideas of algebraic topology Suitable for a two semester course at the beginning graduate level it assumes a knowledge of point set topology and basic algebra Although categories and functors are introduced early in the text excessive generality is avoided and the author explains the geometric or analytic origins of abstract concepts as they are introduced

*A First Course in Algebraic Topology* A. Lahiri, B. K. Lahiri, 2000 This volume is an introductory text where the subject matter has been presented lucidly so as to help self study by the beginners New definitions are followed by suitable illustrations and the proofs of the theorems are easily accessible to the readers Sufficient number of examples have been incorporated to facilitate clear understanding of the concepts The book starts with the basic notions of category functors and homotopy of continuous mappings including relative homotopy Fundamental groups of circles and torus have been treated along with the fundamental group of covering spaces Simplexes and complexes are presented in detail and two homology theories simplicial

homology and singular homology have been considered along with calculations of some homology groups

**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

*Algebraic Topology from a Homotopical Viewpoint* Marcelo Aguilar, Samuel Gitler, Carlos Prieto, 2002-06-13 The authors present introductory material in algebraic topology from a novel point of view in using a homotopy theoretic approach This carefully written book can be read by any student who knows some topology providing a useful method to quickly learn this novel homotopy theoretic point of view of algebraic topology

*Basic Algebraic Topology* Anant R. Shastri, 2016-02-03 Building on rudimentary knowledge of real analysis point set topology and basic algebra *Basic Algebraic Topology* provides plenty of material for a two semester course in algebraic topology The book first introduces the necessary fundamental concepts such as relative homotopy fibrations and cofibrations category theory cell complexes and so on

**Algebraic Topology** Satya Deo, 2018 *Algebraic Topology* Smail Djebali, 2024-11-18 The aim of the textbook is two fold first to serve as an introductory graduate course in Algebraic Topology and then to provide an application oriented presentation of some fundamental concepts in Algebraic Topology to the fixed point theory A simple approach based on point set Topology is used throughout to introduce many standard constructions of fundamental and homological groups of surfaces and topological spaces The approach does not rely on Homological Algebra The constructions of some spaces using the quotient spaces such as the join the suspension and the adjunction spaces are developed in the setting of Topology only The computations of the fundamental and homological groups of many surfaces and topological spaces occupy large parts of the book sphere torus projective space Mobius band Klein bottle manifolds adjunctions spaces Borsuk's theory of retracts which is intimately related to the problem of the extendability of continuous functions is developed in details This theory together with the homotopy theory the lifting and covering maps may serve as additional course material for students involved in General Topology The book comprises 280 detailed worked examples 320 exercises with hints or references 80 illustrative figures and more than 80 commutative diagrams to make it more oriented towards applications maps between spheres Borsuk Ulam Theory Fixed Point Theorems As applications the book offers some existence results on the solvability of some nonlinear differential equations subject to initial or boundary conditions The book is suitable for students primarily enrolled in Algebraic Topology General Topology Homological Algebra Differential Topology Differential Geometry and Topological Geometry It is also useful for advanced undergraduate students who aspire to grasp easily some new concepts in

Algebraic Topology and Applications The textbook is practical both as a teaching and research document for Bachelor Master students and first year PhD students since it is accessible to any reader with a modest understanding of topological spaces The book aspires to fill a gap in the existing literature by providing a research and teaching document which investigates both the theory and the applications of Algebraic Topology in an accessible way without missing the main results of the topics covered

*Algebraic Topology* William Fulton, 1997-09-05 To the Teacher This book is designed to introduce a student to some of the important ideas of algebraic topology by emphasizing the relations of these ideas with other areas of mathematics Rather than choosing one point of view of modern topology homotopy theory simplicial complexes singular theory axiomatic homology differential topology etc we concentrate our attention on concrete problems in low dimensions introducing only as much algebraic machinery as necessary for the problems we meet This makes it possible to see a wider variety of important features of the subject than is usual in a beginning text The book is designed for students of mathematics or science who are not aiming to become practicing algebraic topologists without we hope discouraging budding topologists We also feel that this approach is in better harmony with the historical development of the subject What would we like a student to know after a first course in topology assuming we reject the answer half of what one would like the student to know after a second course in topology Our answers to this have guided the choice of material which includes understanding the relation between homology and integration first on plane domains later on Riemann surfaces and in higher dimensions winding numbers and degrees of mappings fixed point theorems applications such as the Jordan curve theorem invariance of domain in dices of vector fields and Euler characteristics fundamental groups

**Homology Theory** James W. Vick, 1994 This book is designed to be an introduction to some of the basic ideas in the field of algebraic topology In particular it is devoted to the foundations and applications of homology theory The only prerequisite for the student is a basic knowledge of abelian groups and point set topology The essentials of singular homology are given in the first chapter along with some of the most important applications In this way the student can quickly see the importance of the material The successive topics include attaching spaces finite CW complexes the Eilenberg Steenrod axioms cohomology products manifolds Poincare duality and fixed point theory Throughout the book the approach is as illustrative as possible with numerous examples and diagrams Extremes of generality are sacrificed when they are likely to obscure the essential concepts involved The book is intended to be easily read by students as a textbook for a course or as a source for individual study This second edition has been expanded to include a new chapter on covering spaces as well as additional illuminating exercises The conceptual approach is again used to show how lifting problems give rise to the fundamental group and its properties

**Introduction to Differential and Algebraic Topology** I. U. Grigor'evich Borisovich, 1995-05-31 This Introduction to Topology which is a thoroughly revised extensively rewritten second edition of the work first published in Russian in 1980 is a primary manual of topology It contains the basic concepts and theorems of general topology and homotopy theory the classification of two

dimensional surfaces an outline of smooth manifold theory and mappings of smooth manifolds Elements of Morse and homology theory with their application to fixed points are also included Finally the role of topology in mathematical analysis geometry mechanics and differential equations is illustrated Introduction to Topology contains many attractive illustrations drawn by A T Frenko which while forming an integral part of the book also reflect the visual and philosophical aspects of modern topology Each chapter ends with a review of the recommended literature Audience Researchers and graduate students whose work involves the application of topology homotopy and homology theories

**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

*Homology, Cohomology, And Sheaf Cohomology For Algebraic Topology, Algebraic Geometry, And Differential Geometry* Jean H Gallier, Jocelyn Quaintance, 2022-01-19 For more than thirty years the senior author has been trying to learn algebraic geometry In the process he discovered that many of the classic textbooks in algebraic geometry require substantial knowledge of cohomology homological algebra and sheaf theory In an attempt to demystify these abstract concepts and facilitate understanding for a new generation of mathematicians he along with co author wrote this book for an audience who is familiar with basic concepts of linear and abstract algebra but who never has had any exposure to the algebraic geometry

or homological algebra As such this book consists of two parts The first part gives a crash course on the homological and cohomological aspects of algebraic topology with a bias in favor of cohomology The second part is devoted to presheaves sheaves Čech cohomology derived functors sheaf cohomology and spectral sequences All important concepts are intuitively motivated and the associated proofs of the quintessential theorems are presented in detail rarely found in the standard texts

*Lectures on Algebraic Topology* Albrecht Dold, 2012-12-06 This is essentially a book on singular homology and cohomology with special emphasis on products and manifolds It does not treat homotopy theory except for some basic notions some examples and some applications of cohomology to homotopy Nor does it deal with generalised homology but many formulations and arguments on singular homology are so chosen that they also apply to general homology Because of these absences I have also omitted spectral sequences their main applications in topology being to homotopy and general cohomology theory Čech cohomology is treated in a simple ad hoc fashion for locally compact subsets of manifolds a short systematic treatment for arbitrary spaces emphasizing the universal property of the Čech procedure is contained in an appendix The book grew out of a one year s course on algebraic topology and it can serve as a text for such a course For a shorter basic course say of half a year one might use chapters II III IV 1 4 V 1 5 7 8 VI 3 7 9 11 12 As prerequisites the student should know the elementary parts of general topology abelian group theory and the language of categories although our chapter I provides a little help with the latter two For pedagogical reasons I have treated integral homology only up to chapter VI if a reader or teacher prefers to have general coefficients from the beginning he needs to make only minor adaptations

*Algebraic Topology: An Intuitive Approach* Hajime Satō, 1999 Develops an introduction to algebraic topology mainly through simple examples built on cell complexes Topics covers include homeomorphisms topological spaces and cell complexes homotopy homology cohomology the universal coefficient theorem fiber bundles and vector bundles and spectral sequences Includes chapter summaries exercises and answers Includes an appendix of definitions in sets topology and groups Originally published in Japanese by Iwanami Shoten Publishers Tokyo 1996 Annotation copyrighted by Book News Inc Portland OR

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