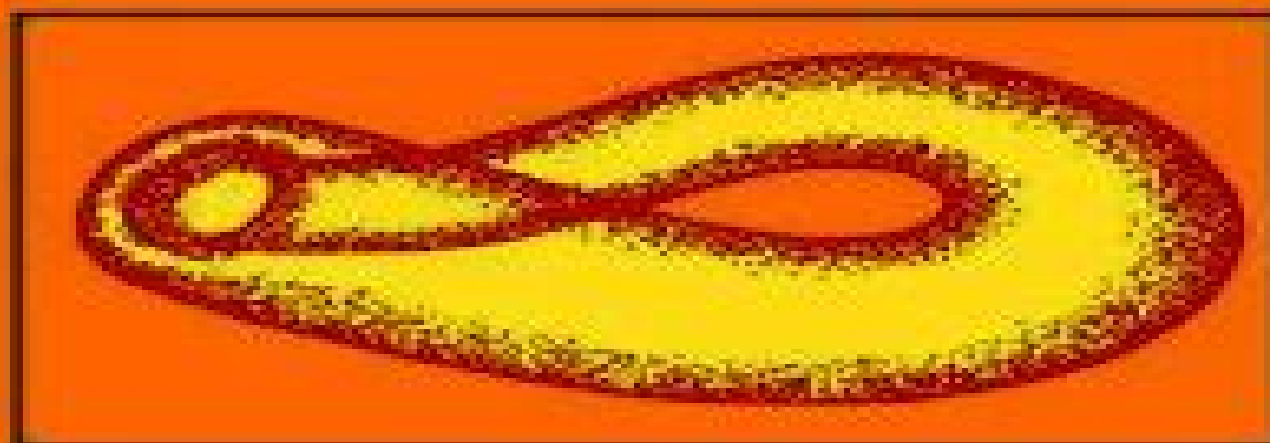


Undergraduate Texts in Mathematics

Fred H. Croom

**Basic Concepts of
Algebraic Topology**



Springer-Verlag New York - Heidelberg - Berlin

Basic Concepts Of Algebraic Topology

Holger Kammeyer



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

Algebraic Topology Edwin H. Spanier, 2012-12-06 Intended for use both as a text and a reference this book is an exposition of the fundamental ideas of algebraic topology The first third of the book covers the fundamental group its definition and its application in the study of covering spaces The focus then turns to homology theory including cohomology cup products cohomology operations and topological manifolds The remaining third of the book is devoted to Homotopy theory covering basic facts about homotopy groups applications to obstruction theory and computations of homotopy groups of spheres In the later parts the main emphasis is on the application to geometry of the algebraic tools developed earlier

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: A Primer (texts And Readings In Mathematics 27) Deo Satya,2006-01-01 **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 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 **Introduction to Algebraic Topology** Holger Kammeyer,2022-06-20 This textbook provides a succinct introduction to algebraic topology It follows a modern categorical approach from the beginning and gives ample motivation throughout so that students will find this an ideal first encounter to the field Topics are treated in a self contained manner making this a convenient resource for instructors searching for a comprehensive overview of the area It begins with an outline of category theory establishing the concepts of functors natural transformations adjunction limits and colimits As a first application van Kampen s theorem is proven in the groupoid version Following this an excursion to cofibrations and homotopy pushouts yields an alternative formulation of the theorem that puts the computation of fundamental groups of attaching spaces on firm ground Simplicial

homology is then defined motivating the Eilenberg Steenrod axioms and the simplicial approximation theorem is proven After verifying the axioms for singular homology various versions of the Mayer Vietoris sequence are derived and it is shown that homotopy classes of self maps of spheres are classified by degree The final chapter discusses cellular homology of CW complexes culminating in the uniqueness theorem for ordinary homology Introduction to Algebraic Topology is suitable for a single semester graduate course on algebraic topology It can also be used for self study with numerous examples exercises and motivating remarks included

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 si

A First Course in Algebraic Topology B. K. Lahiri, 2005 Includes basic notions of category functors and homotopy of continuous mappings including relative homotopy In this book 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

Algebraic Topology Satya Deo, 2018-03-13 This book presents the first concepts of the topics in algebraic topology such as the general simplicial complexes simplicial homology theory fundamental groups covering spaces and singular homology theory in greater detail Originally published in 2003 this book has become one of the seminal books Now in the completely revised and enlarged edition the book discusses the rapidly developing field of algebraic topology Targeted to undergraduate and graduate students of mathematics the prerequisite for this book is minimal knowledge of linear algebra group theory and topological spaces The book discusses about the relevant concepts and ideas in a very lucid manner providing suitable motivations and illustrations All relevant topics are covered including the classical theorems like the Brouwer s fixed point theorem Lefschetz fixed point theorem Borsuk Ulam theorem Brouwer s separation theorem and the theorem on invariance of the domain Most of the exercises are elementary but sometimes challenging for the reader to provoke their curiosity for problem solving

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

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

Handbook of Algebraic Topology I.M. James, 1995-07-18 Algebraic topology also known as homotopy theory is a flourishing branch of modern mathematics It is very much an international subject and this is reflected in the background of the 36 leading experts who have contributed to the Handbook Written for the reader who already has a grounding in the subject the volume consists of 27 expository surveys covering the most active areas of research They provide the researcher with an up to date overview of this exciting branch of mathematics

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

Introduction to Differential and Algebraic Topology Yu.G. Borisovich, N.M. Bliznyakov, T.N. Fomenko, Y.A. Izrailevich, 2013-03-09 Topology as

a subject in our opinion plays a central role in university education. It is not really possible to design courses in differential geometry, mathematical analysis, differential equations, mechanics, functional analysis that correspond to the temporary state of these disciplines without involving topological concepts. Therefore, it is essential to acquaint students with topological research methods already in the first university courses. This textbook is one possible version of an introductory course in topology and elements of differential geometry and it absolutely reflects both the authors' personal preferences and experience as lecturers and researchers. It deals with those areas of topology and geometry that are most closely related to fundamental courses in general mathematics. The educational material leaves a lecturer a free choice in designing his own course or his own seminar. We draw attention to a number of particularities in our book. The first chapter according to the authors' intention should acquaint readers with topological problems and concepts which arise from problems in geometry, analysis and physics. Here, general topology (Ch 2) is presented by introducing constructions, for example, related to the concept of quotient spaces much earlier than various other notions of general topology, thus making it possible for students to study important examples of manifolds, two-dimensional surfaces, projective spaces, orbit spaces, etc. as topological spaces immediately.

Algebraic Topology from a Homotopical Viewpoint Marcelo Aguilar, Samuel Gitler, Carlos Prieto, 2008-02-02

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

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.

Physics and Contemporary Needs Riazuddin, 2012-12-06

These proceedings cover the lectures delivered at

the Second International Summer College on Physics and Contemporary Needs held from June 20 July 7 1977 at Nathiagali one of the scenic hill resorts in the northern part of Pakistan The college was organised by the Pakistan Atomic Energy Commission PAEC and co sponsored by the International Centre for Theoretical Physics Trieste ICTP It also received a financial grant by the University Grants Commission for the participation of physicists from various universities of Pakistan The college was attended by 13 lecturers 7 invited seminar speakers and 134 participants from 26 countries and consisted of 15 concentrated days of lectures seminars and informal discussions These proceedings contain only regular lectures delivered there but the seminars which were held are listed in the Appendix The theme of the college covered two important aspects of science in general and physics in particular first to provide to the participants from developing countries some of the excitement of what is happening at the frontiers of physics secondly as the name of the college emphasises it was to encourage the physicists from developing countries to interest themselves in and to use their knowledge and methodology of research for attacking some of the problems faced by their respective countries The lectures delivered at the college covered a wide spectrum of physics and indicated similarity of methodology used in various branches of physics as well as practical applications of some of the topics discussed

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