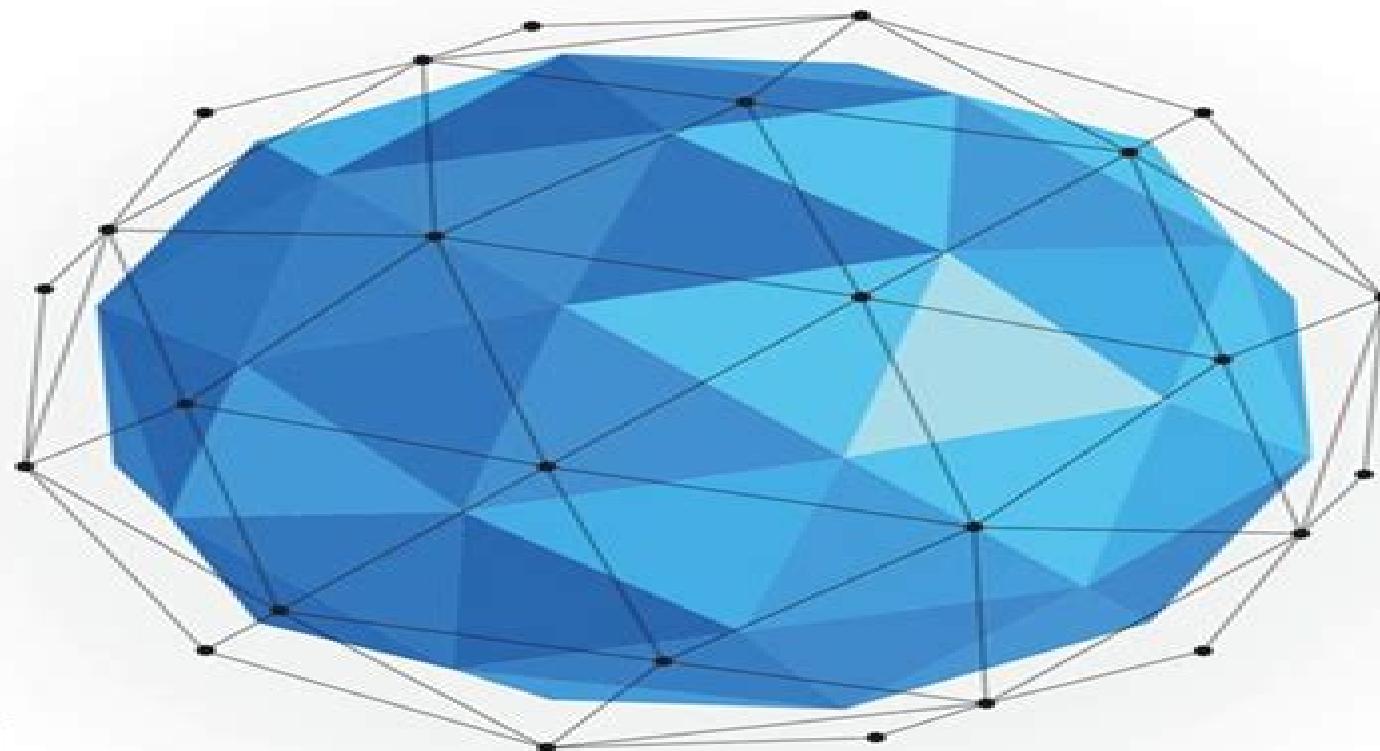*Smail Djebali*

ALGEBRAIC TOPOLOGY

CONSTRUCTIONS, RETRACTIONS, AND FIXED POINT THEORY

Algebraic Topology

Sergeĭ Vladimirovich Matveev

Algebraic Topology Algebraic Topology:

Algebraic Topology Allen Hatcher,2002 In most mathematics departments at major universities one of the three or four basic first year graduate courses is in the subject of algebraic topology This introductory textbook in algebraic topology is suitable for use in a course or for self study featuring broad coverage of the subject and a readable exposition with many examples and exercises The four main chapters present the basic material of the subject fundamental group and covering spaces homology and cohomology higher homotopy groups and homotopy theory generally The author emphasizes the geometric aspects of the subject which helps students gain intuition A unique feature of the book is the inclusion of many optional topics which are not usually part of a first course due to time constraints and for which elementary expositions are sometimes hard to find Among these are Bockstein and transfer homomorphisms direct and inverse limits H spaces and Hopf algebras the Brown representability theorem the James reduced product the Dold Thom theorem and a full exposition of Steenrod squares and powers Researchers will also welcome this aspect of the book **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,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 Homotropy theory covering basic facts about homotropy groups applications to obstruction theory and computations of homotropy groups of spheres In the later parts the main emphasis is on the application to geometry of the algebraic tools developed earlier **Algebraic Topology** Clark Bray,Adrian Butscher,Simon Rubinstein-Salzedo,2021-06-18 Algebraic Topology is an introductory textbook based on a class for advanced high school students at the Stanford University Mathematics Camp SUMaC that the authors have taught for many years Each chapter or lecture corresponds to one day of

class at SUMaC The book begins with the preliminaries needed for the formal definition of a surface Other topics covered in the book include the classification of surfaces group theory the fundamental group and homology This book assumes no background in abstract algebra or real analysis and the material from those subjects is presented as needed in the text This makes the book readable to undergraduates or high school students who do not have the background typically assumed in an algebraic topology book or class The book contains many examples and exercises allowing it to be used for both self study and for an introductory undergraduate topology course   *Lectures on Algebraic Topology* Sergeĭ 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** C. R. F. Maunder,1996-01-01 Based on lectures to advanced undergraduate and first year graduate students this is a thorough sophisticated and modern treatment of elementary algebraic topology essentially from a homotopy theoretic viewpoint Author C R F Maunder provides examples and exercises and notes and references at the end of each chapter trace the historical development of the subject   *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 and Algebraic K-theory William Browder,1987-11-21 This book contains accounts of talks held at a symposium in honor of John C Moore in October 1983 at Princeton University The work includes papers in classical homotopy theory homological algebra rational homotopy theory algebraic K theory of spaces and other subjects   **Algebraic Topology** Kevin P. Knudson,2024-08-19 This book is ideal as an introduction to algebraic topology and applied algebraic topology featuring a streamlined approach including coverage of basic categorical notions simplicial

cellular and singular homology persistent homology cohomology groups cup products Poincare Duality homotopy theory and spectral sequences The focus is on examples and computations and there are many end of chapter exercises and extensive student projects **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 <u>Algebraic Topology: A Structural Introduction</u> Marco Grandis,2021-12-24 Algebraic Topology is a system and strategy of partial translations aiming to reduce difficult topological problems to algebraic facts that can be more easily solved The main subject of this book is singular homology the simplest of these translations Studying this theory and its applications we also investigate its underlying structural layout the topics of Homological Algebra Homotopy Theory and Category Theory which occur in its foundation This book is an introduction to a complex domain with references to its advanced parts and ramifications It is written with a moderate amount of prerequisites basic general topology and little else and a moderate progression starting from a very elementary beginning A consistent part of the exposition is organised in the form of exercises with suitable hints and solutions It can be used as a textbook for a semester course or self study and a guidebook for further study **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 Marvin J. Greenberg,2018-03-05 Great first book on algebraic topology Introduces co homology through singular 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 Concise Course in Algebraic Topology J. P. May,1999-09 Algebraic topology is a basic part of modern mathematics and some knowledge of this area is indispensable for any advanced work relating to geometry including topology itself differential geometry algebraic geometry and Lie groups This book provides a detailed treatment of algebraic topology both for teachers of the subject and for advanced graduate students in mathematics either specializing in this area or continuing on to other fields J Peter May s approach reflects the enormous internal developments within algebraic topology over the past several decades most of which are largely unknown to mathematicians in other fields But he also retains the classical presentations of various topics where appropriate Most chapters end with problems that further explore and refine the concepts presented The final four chapters provide sketches of substantial areas of algebraic topology that are normally omitted from introductory texts and the book concludes with a list of suggested readings for those interested in delving further into the field 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 **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 **Lectures On Algebraic Topology** Haynes R Miller,2021-09-20 Algebraic Topology and basic homotopy theory form a fundamental building block for much of modern mathematics These lecture notes represent a culmination of many years of leading a two semester course in this subject at MIT The style is engaging and student friendly but precise Every lecture is accompanied by exercises It begins slowly in order to gather up students with a variety of backgrounds but gains pace as the course progresses and by the end the student has a command of all the basic techniques of classical homotopy theory *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 Cech 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 **Algebraic Topology of Finite Topological Spaces and Applications** Jonathan A. Barmak,2011-08-24 This volume deals with the theory of finite topological spaces and its relationship with the homotopy and simple homotopy theory of polyhedra The interaction between their intrinsic combinatorial and topological structures makes finite spaces a useful tool for studying problems in Topology Algebra and Geometry from a new perspective In particular the methods developed in this manuscript are used to study Quillen s conjecture on the poset of p subgroups of a finite group and the Andrews Curtis conjecture on the 3 deformability of contractible two dimensional complexes This self contained work constitutes the first detailed exposition on the algebraic topology of finite spaces It is intended for topologists and combinatorialists but it is also recommended for advanced

undergraduate students and graduate students with a modest knowledge of Algebraic Topology

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