a network   k-simplex

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b anatomy   clique

cycle

c filtration and cycle persistence

edge weight or time

Algebraic Topology

Smail Djebali

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 **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 **An Introduction to Algebraic Topology** Joseph J. Rotman,2013-11-11 There is a canard that every textbook of algebraic topology either ends with the definition of the Klein bottle or is a personal communication to J H C Whitehead Of course this is false as a glance at the books of Hilton and Wylie Maunder Munkres and Schubert reveals Still the canard does reflect some truth Too often one finds too much generality and too little attention to details There are two types of obstacle for the student learning algebraic topology The first is the formidable array of new techniques e g most students know very little homological algebra the second obstacle is that the basic defini tions have been so abstracted that their geometric or analytic origins have been obscured I have tried to overcome these barriers In the first instance new definitions are introduced only when needed e g homology with coeffi cients and cohomology are deferred until after the Eilenberg Steenrod axioms have been verified for the three homology theories we treat singular sim plicial and cellular Moreover many exercises are given to help the reader assimilate material In the second instance important definitions are often accompanied by an informal discussion describing their origins e g winding numbers are discussed before computing 1tl Sl Green s theorem occurs before defining homology and differential forms appear before introducing cohomology We assume that the reader has had a first course in point set topology but we do discuss quotient spaces path connectedness and function spaces **Algebraic Topology** William Fulton,2013-12-01 To the Teacher This book is designed to introduce a student to some of the important ideas of algebraic topology by emphasizing the re lations of these ideas with other areas of

mathematics Rather than choosing one point of view of modem topology homotopy theory simplicial complexes singular theory axiomatic homology differ ential topology etc we concentrate our attention on concrete prob lems in low dimensions introducing only as much algebraic machin ery 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 topol ogists without we hope discouraging budding topologists We also feel that this approach is in better harmony with the historical devel opment of the subject What would we like a student to know after a first course in to pology 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 under standing the relation between homology and integration first on plane domains later on Riemann surfaces and in higher dimensions wind ing numbers and degrees of mappings fixed point theorems appli cations such as the Jordan curve theorem invariance of domain in dices of vector fields and Euler characteristics fundamental groups   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** 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   **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 **A User's Guide to Algebraic Topology** C. T. J. Dodson,C.T. Dodson,P.E. Parker,Phillip E. Parker,1997-01-31 This book arose from courses taught by the authors and is designed for both instructional and reference use during and after a first course in algebraic topology It is a handbook for users who want to calculate but whose main interests are in applications using the current literature rather than in developing the theory Typical areas of applications are differential geometry and theoretical physics We start gently with numerous pictures to illustrate the fundamental ideas and constructions in homotopy theory that are needed in later chapters We show how to calculate homotopy groups homology groups and cohomology rings of most of the major theories exact homotopy sequences of fibrations some important spectral sequences and all the obstructions that we can compute from these Our approach is to mix illustrative examples with those proofs that actually develop transferable calculational aids We give extensive appendices with notes on background material extensive tables of data and a thorough index Audience Graduate students and professionals in mathematics and physics **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 **An Introduction to Algebraic Topology** Andrew H. Wallace,2007-02-27 Originally published Homology theory on algebraic varieties New York Pergamon Press 1957 **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 *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 Solomon Lefschetz,1942-12-31 **Algebraic Topology** H.V. Hưng Nguyễn,Lionel Schwartz,2018-01-02 Held during algebraic topology special sessions at the Vietnam Institute for Advanced Studies in Mathematics VIASM Hanoi this set of notes consists of expanded versions of three courses given by G Ginot H W Henn and G Powell They are all introductory texts and can be used by PhD students and experts in the field Among the three contributions two concern stable homotopy of spheres Henn focusses on the chromatic point of view the Morava K n localization and the cohomology of the Morava stabilizer groups Powell s chapter is concerned with the derived functors of the destabilization and iterated loop functors and provides a small complex to compute them Indications are given for the odd prime case Providing an introduction to some aspects of string and brane topology Ginot s contribution focusses on Hochschild homology and its generalizations It contains a number of new results and fills a gap in the literature

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 **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   *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   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   **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   **Algebraic Topology: Homology and Cohomology** Andrew H. Wallace,1970 This self contained text is suitable for advanced undergraduate and graduate students and may be used either after or concurrently with courses in general topology and algebra It surveys several algebraic invariants the fundamental group singular and Cech homology groups and a variety of cohomology groups Proceeding from the view of topology as a form of geometry Wallace emphasizes geometrical motivations and interpretations Once beyond the singular homology groups however the author advances an understanding of the subject s algebraic patterns leaving geometry aside in order to study these patterns as pure algebra Numerous exercises appear throughout the text In addition to developing students thinking in terms of algebraic topology the exercises also unify the text since many of them feature results that appear in later expositions Extensive appendixes offer helpful reviews of background material

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