Albrecht Dold

Lectures on Algebraic Topology

Lectures On Algebraic Topology Classics In Mathematics

Jean H Gallier,Jocelyn Quaintance

Lectures On Algebraic Topology Classics In Mathematics:

    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 applica tions of co homology to homotopy Nor does it deal with general ised 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 co homology theory Cech 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 Cech 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 adaptions   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   **Algebraic Topology** Rafael Ayala,2012-01-24 ALGEBRAIC TOPOLOGY An Introduction starts with the combinatorial definition of simplicial co homology and its main properties including duality for homology manifolds Then the geometrical facet of co homology via bordism theory is sketched and it is shown that the corresponding theory for pseudomanifolds coincides with the homology obtained from the singular chain complex The classical applications of co homology theory are included Degree and fixed point theory are presented with their extensions to infinite dimensional spaces The book also contains a geometric approach to the Hurewicz theorem relating homology and homotopy The last chapter exploits the algebraic invariants introduced in the book to give in detail the homotopical classification of the three dimensional lens spaces Each chapter concludes with a generous list of exercises and problems many of them contain hints for their solution Some groups of problems introduce a topic not included in the basic core of the book   **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   Elements of Algebraic Topology James R. Munkres,Steven G. Krantz,Harold R. Parks,2025-05-27 This classic text appears here in a new edition for the first time in four decades The new edition with the aid of two new authors brings it up to date for a new generation of mathematicians and mathematics students Elements of Algebraic Topology provides the most concrete approach to the subject With coverage of homology and cohomology theory universal coefficient theorems Kunneth theorem duality in manifolds and applications to classical theorems of point set topology this book is perfect for communicating complex topics and the fun nature of algebraic topology for beginners This second edition retains the essential features of the original book Most of the notation and terminology are the same There are some useful additions There is a new introduction to homotopy theory A new Index of Notation is included Many new exercises are added Algebraic topology is a cornerstone of modern mathematics Every working mathematician should have at least an acquaintance with the subject This book which is based largely on the theory of triangulations provides such an introduction It should be accessible to a broad cross section of the profession both students and senior mathematicians Students should have some familiarity with general topology   *The Wild World of 4-Manifolds* Alexandru Scorpan,2022-01-26 What a wonderful book I strongly recommend this book to anyone especially graduate students interested in getting a sense of 4 manifolds MAA Reviews The book gives an excellent overview

of 4 manifolds with many figures and historical notes Graduate students nonexperts and experts alike will enjoy browsing through it Robion C Kirby University of California Berkeley This book offers a panorama of the topology of simply connected smooth manifolds of dimension four Dimension four is unlike any other dimension it is large enough to have room for wild things to happen but small enough so that there is no room to undo the wildness For example only manifolds of dimension four can exhibit infinitely many distinct smooth structures Indeed their topology remains the least understood today To put things in context the book starts with a survey of higher dimensions and of topological 4 manifolds In the second part the main invariant of a 4 manifold the intersection form and its interaction with the topology of the manifold are investigated In the third part as an important source of examples complex surfaces are reviewed In the final fourth part of the book gauge theory is presented this differential geometric method has brought to light how unwieldy smooth 4 manifolds truly are and while bringing new insights has raised more questions than answers The structure of the book is modular organized into a main track of about two hundred pages augmented by extensive notes at the end of each chapter where many extra details proofs and developments are presented To help the reader the text is peppered with over 250 illustrations and has an extensive index **Lectures on Morse Homology** Augustin Banyaga,David Hurtubise,2013-03-09 This book offers a detailed presentation of results needed to prove the Morse Homology Theorem using classical techniques from algebraic topology and homotopy theory The text presents results that were formerly scattered in the mathematical literature in a single reference with complete and detailed proofs The core material includes CW complexes Morse theory hyperbolic dynamical systems the Lamba Lemma the Stable Unstable Manifold Theorem transversality theory the Morse Smale Witten boundary operator and Conley index 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 *Lecture Notes in Algebraic Topology* James F. Davis and Paul Kirk, 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 andgeometric 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 someknowledge 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 obstructiontheory 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 presentproofs 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 andhomological algebra The exposition in the text is clear special cases are presented over complex general statements **Introduction to Vassiliev Knot Invariants** S. Chmutov,Sergeĭ Vasilʹevich Duzhin,J. Mostovoy,2012-05-24 A detailed exposition of the theory with an emphasis on its combinatorial aspects **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 andgeometric 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 someknowledge 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 obstructiontheory 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 presentproofs 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 andhomological algebra The exposition in the text is clear special cases are presented over complex general statements **Lectures on Algebraic Topology** Marvin J. Greenberg,1971 **Topological Methods in Group Theory** Ross Geoghegan,2007-12-27 This book is about the interplay between algebraic topology and the theory of infinite discrete groups It is a hugely important contribution to the field of topological and geometric group theory and is bound to become a standard reference in the field To keep the length reasonable and the focus clear the author assumes the reader knows or can easily learn the necessary algebra but wants to see the topology done in detail The central subject of the book is the theory of ends Here the author adopts a new algebraic approach which is geometric in spirit Lectures on Functor Homology Vincent Franjou,Antoine Touzé,2015-12-08 This book features a series of lectures that explores three different fields in which functor homology short for homological algebra in functor categories has recently played a significant role For each of these applications the functor viewpoint provides both essential insights and new methods for tackling difficult mathematical problems In the lectures by Aur lien Djament polynomial functors appear as coefficients in the homology of infinite families of classical groups e g general linear groups or symplectic groups and their stabilization Djament s theorem states that this stable homology can be computed using only the homology with trivial coefficients and the manageable functor homology The series includes an intriguing development of Scorichenko s unpublished results The lectures by Wilberd van der Kallen lead to the solution of the general cohomological finite generation problem extending Hilbert s fourteenth problem and its solution to the context of cohomology The focus here is on the cohomology of algebraic groups or rational cohomology and the coefficients are Friedlander and Suslin s strict polynomial functors a conceptual form of modules over the Schur algebra Roman Mikhailov s lectures highlight topological invariants homoto py and homology of topological spaces through derived functors of polynomial functors In this regard the functor framework makes better use of naturality allowing it to reach calculations that remain beyond the grasp of classical algebraic topology Lastly Antoine Touz s introductory course on homological algebra makes the book accessible to graduate students new to the field The links between functor homology and the three fields mentioned above offer compelling arguments for pushing the development of the functor viewpoint The lectures in this book will provide readers with a feel for functors and a valuable new perspective to apply to their favourite problems Morse Theory and Floer Homology Michèle Audin,Mihai Damian,2013-11-29 This book is an introduction to modern methods of symplectic topology It is devoted to explaining the solution of an important problem originating from classical mechanics the Arnold conjecture which asserts

that the number of 1 periodic trajectories of a non degenerate Hamiltonian system is bounded below by the dimension of the homology of the underlying manifold The first part is a thorough introduction to Morse theory a fundamental tool of differential topology It defines the Morse complex and the Morse homology and develops some of their applications Morse homology also serves a simple model for Floer homology which is covered in the second part Floer homology is an infinite dimensional analogue of Morse homology Its involvement has been crucial in the recent achievements in symplectic geometry and in particular in the proof of the Arnold conjecture The building blocks of Floer homology are more intricate and imply the use of more sophisticated analytical methods all of which are explained in this second part The three appendices present a few prerequisites in differential geometry algebraic topology and analysis The book originated in a graduate course given at Strasbourg University and contains a large range of figures and exercises Morse Theory and Floer Homology will be particularly helpful for graduate and postgraduate students **Wigner-Type Theorems for Hilbert Grassmannians** Mark Pankov,2020-01-16 An accessible introduction to the geometric approach to Wigner s theorem and its role in quantum mechanics **Stein Manifolds and Holomorphic Mappings** Franc Forstnerič,2017-09-05 This book now in a carefully revised second edition provides an up to date account of Oka theory including the classical Oka Grauert theory and the wide array of applications to the geometry of Stein manifolds Oka theory is the field of complex analysis dealing with global problems on Stein manifolds which admit analytic solutions in the absence of topological obstructions The exposition in the present volume focuses on the notion of an Oka manifold introduced by the author in 2009 It explores connections with elliptic complex geometry initiated by Gromov in 1989 with the Anders n Lempert theory of holomorphic automorphisms of complex Euclidean spaces and of Stein manifolds with the density property and with topological methods such as homotopy theory and the Seiberg Witten theory Researchers and graduate students interested in the homotopy principle in complex analysis will find this book particularly useful It is currently the only work that offers a comprehensive introduction to both the Oka theory and the theory of holomorphic automorphisms of complex Euclidean spaces and of other complex manifolds with large automorphism groups **Lusternik-Schnirelmann Category** Octavian Cornea,2003 Lusternik Schnirelmann category is like a Picasso painting Looking at category from different perspectives produces completely different impressions of category s beauty and applicability from the Introduction Lusternik Schnirelmann category is a subject with ties to both algebraic topology and dynamical systems The authors take LS category as the central theme and then develop topics in topology and dynamics around it Included are exercises and many examples The book presents the material in a rich expository style The book provides a unified approach to LS category including foundational material on homotopy theoretic aspects the Lusternik Schnirelmann theorem on critical points and more advanced topics such as Hopf invariants the construction of functions with few critical points connections with symplectic geometry the complexity of algorithms and category of 3 manifolds This is the first book to synthesize these topics It takes readers from the very basics of the subject to

the state of the art Prerequisites are few two semesters of algebraic topology and perhaps differential topology It is suitable for graduate students and researchers interested **Geometry, Topology, and Dynamics in Negative Curvature** C. S. Aravinda,F. T. Farrell,J. -F. Lafont,2016-01-21 The ICM 2010 satellite conference Geometry Topology and Dynamics in Negative Curvature afforded an excellent opportunity to discuss various aspects of this fascinating interdisciplinary subject in which methods and techniques from geometry topology and dynamics often interact in novel and interesting ways Containing ten survey articles written by some of the leading experts in the field this proceedings volume provides an overview of important recent developments relating to negative curvature Topics covered include homogeneous dynamics harmonic manifolds the Atiyah Conjecture counting circles and arcs and hyperbolic buildings Each author pays particular attention to the expository aspects making the book particularly useful for graduate students and mathematicians interested in transitioning from other areas via the common theme of negative curvature *Twisted Morse Complexes* Augustin Banyaga,David Hurtubise,Peter Spaeth,2024-11-01 This book gives a detailed presentation of twisted Morse homology and cohomology on closed finite dimensional smooth manifolds It contains a complete proof of the Twisted Morse Homology Theorem which says that on a closed finite dimensional smooth manifold the homology of the Morse Smale Witten chain complex with coefficients in a bundle of abelian groups G is isomorphic to the singular homology of the manifold with coefficients in G It also includes proofs of twisted Morse theoretic versions of well known theorems such as Eilenberg s Theorem the Poincar Lemma and the de Rham Theorem The effectiveness of twisted Morse complexes is demonstrated by computing the Lichnerowicz cohomology of surfaces giving obstructions to spaces being associative H spaces and computing Novikov numbers Suitable for a graduate level course the book may also be used as a reference for graduate students and working mathematicians or physicists

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