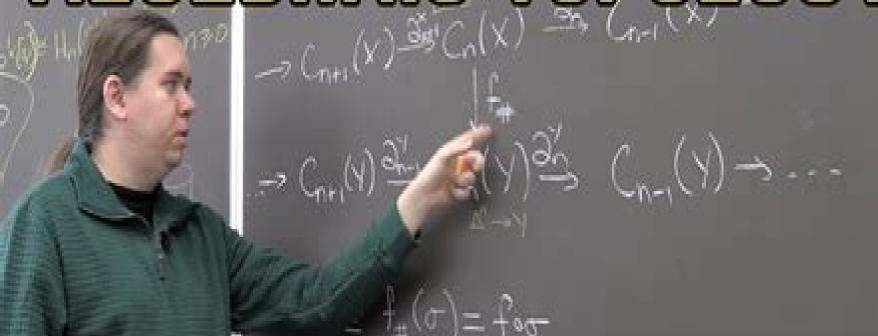
# ALGEBRAIC TOPOLOGY



## LECTURE 13: HOMOTOPY EQUIVALENCE & HOMOLOGY

### **Algebraic Topology Homotopy And Homology**

**Albrecht Dold** 

#### **Algebraic Topology Homotopy And Homology:**

Algebraic Topology - Homotopy and Homology Robert M. Switzer, 2017-12-01 From the reviews The author has attempted an ambitious and most commendable project He assumes only a modest knowledge of algebraic topology on the part of the reader to start with and he leads the reader systematically to the point at which he can begin to tackle problems in the current areas of research centered around generalized homology theories and their applications. The author has sought to make his treatment complete and he has succeeded The book contains much material that has not previously appeared in this format The writing is clean and clear and the exposition is well motivated This book is all in all a very admirable work and a valuable addition to the literature S Y Husseini in Mathematical Reviews 1976 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 **Introduction to Homotopy Theory** Aneta Hajek, 2015-08 Homotopy theory which is the main part of algebraic topology studies topological objects up to homotopy equivalence Homotopy equivalence is weaker relations than topological equivalence i e homotopy classes of spaces are larger than homeomorphism classes Even though the ultimate goal of topology is to classify various classes of topological spaces up to a homeomorphism in algebraic topology homotopy equivalence plays a more important role than homeomorphism essentially because the basic tools of algebraic topology homology and homotopy groups are invariant with respect to homotopy equivalence and do not distinguish topologically nonequivalent but homotopic objects The idea of homotopy can be turned into a formal category of category theory. The homotopy category is the category whose objects are topological spaces and whose morphisms are homotopy equivalence classes of continuous maps Two topological spaces X and Y are isomorphic in this category if and only if they are homotopy equivalent Then a functor on the category of topological spaces is homotopy invariant if it can be expressed as a functor on the homotopy category Based on the concept of the homotopy computation methods for algebraic and differential equations have been developed. The methods for algebraic equations include the homotopy continuation method and the continuation method The methods for differential equations include the homotopy analysis method In practice there are technical difficulties in using homotopies with certain spaces Algebraic topologists work with compactly generated spaces CW complexes or spectra This book deals with homotopy theory one of the main branches of algebraic topology Algebraic Topology Andrew H. Wallace, 2007-01-01 Surveys several algebraic invariants including the fundamental group singular and Cech homology groups and a variety of cohomology groups 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 **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 **Lectures on Algebraic Topology** Albrecht Dold, 1995-02-15 Springer is reissuing a selected few highly successful books in a new inexpensive softcover edition to make them easily accessible to younger generations of students and researchers Springer Verlag began publishing books in higher mathematics in 1920 This is a reprint of the Second Edition Algebraic Topology: A Structural Introduction 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 Jaume Aguade, Manuel Castellet, Frederick R. Cohen, 2006-11-15 The papers in this collection all fully refereed original papers reflect many aspects of recent significant advances in homotopy theory and group cohomology From the Contents A Adem On the geometry and cohomology of finite simple groups D J Benson Resolutions and Poincar duality for finite groups C Broto and S Zarati On sub A algebras of H V M J Hopkins N J Kuhn D C Ravenel Morava K theories of classifying spaces and generalized characters for finite groups K Ishiguro Classifying spaces of compact simple lie groups and p tori A T Lundell Concise tables of James numbers and some homotopyof classical Lie groups and associated homogeneous spaces J R Martino Anexample of a stable splitting the classifying space of the 4 dim unipotent group J E McClure L Smith On the homotopy uniqueness of BU 2 at the prime 2 G Mislin Cohomologically central elements and fusion in groups Parametrized Homotopy Theory J. Peter May, Johann Sigurdsson, 2006 This book develops rigorous foundations for parametrized homotopy theory which is the algebraic topology of spaces and spectra that are continuously parametrized by the points of a base space It also begins the systematic study of parametrized homology and cohomology theories The parametrized world provides the natural home for many classical notions and results such as orientation theory the Thom isomorphism Atiyah and Poincare duality transfer maps the Adams and Wirthmuller isomorphisms and the Serre and Eilenberg Moore spectral sequences But in addition to providing a clearer conceptual outlook on these classical notions it also provides powerful methods to study new phenomena such as twisted K theory and to make new constructions such as iterated Thom spectra Duality theory in the parametrized setting is particularly illuminating and comes in two flavors One allows the construction and analysis of transfer maps and a quite different one relates parametrized homology to parametrized cohomology The latter is based formally on a new theory of duality in symmetric bicategories that is of considerable independent interest The text brings together many recent developments in homotopy theory It provides a highly structured theory of parametrized spectra and it extends parametrized homotopy theory to the equivariant setting The theory of topological model categories is given a more thorough treatment than is available in the literature This is used together with an interesting blend of classical methods to resolve basic foundational problems that have no nonparametrized counterparts Homotopy Theory: An Introduction to Algebraic Topology, 1975-11-12 Homotopy

Theory An Introduction to Algebraic Topology Algebraic Topology: An Intuitive Approach Hajime Sato, 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 Stable Homotopy and Generalised Homology John Frank Adams, 1974 J Frank Adams the founder of stable homotopy theory gave a lecture series at the University of Chicago in 1967 1970 and 1971 the well written notes of which are published in this classic in algebraic topology. The three series focused on Novikov s work on operations in complex cobordism Quillen s work on formal groups and complex cobordism and stable homotopy and generalized homology Adams's exposition of the first two topics played a vital role in setting the stage for modern work on periodicity phenomena in stable homotopy theory His exposition on the third topic occupies the bulk of the book and gives his definitive treatment of the Adams spectral sequence along with many detailed examples and calculations in KU theory that help give a feel for the subject 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

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 Homotopy Type and Homology Hans J. Baues,1996 Research mathematicians in algebraic topology will be interested in this new attempt to classify homotopy types of simply connected CW complexes This book provides a modern treatment of a long established set of questions in algebraic topology The author is a leading figure in this important research area 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 **Essential Topology** Martin D. Crossley,2011-02-11 This book brings the most important aspects of modern topology within reach of a second year undergraduate student It successfully unites the most exciting aspects of modern topology with those that are most useful for research leaving readers prepared and motivated for further study Written from a thoroughly modern perspective every topic is introduced with an explanation of why it is being studied and a huge number of examples provide further motivation The book is ideal for self study and assumes only a familiarity with the notion of continuity and basic algebra

#### Algebraic Topology Homotopy And Homology Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "Algebraic Topology Homotopy And Homology," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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#### **Table of Contents Algebraic Topology Homotopy And Homology**

- 1. Understanding the eBook Algebraic Topology Homotopy And Homology
  - The Rise of Digital Reading Algebraic Topology Homotopy And Homology
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Algebraic Topology Homotopy And Homology
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Algebraic Topology Homotopy And Homology
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Algebraic Topology Homotopy And Homology
  - Personalized Recommendations
  - Algebraic Topology Homotopy And Homology User Reviews and Ratings
  - Algebraic Topology Homotopy And Homology and Bestseller Lists

- 5. Accessing Algebraic Topology Homotopy And Homology Free and Paid eBooks
  - Algebraic Topology Homotopy And Homology Public Domain eBooks
  - Algebraic Topology Homotopy And Homology eBook Subscription Services
  - Algebraic Topology Homotopy And Homology Budget-Friendly Options
- 6. Navigating Algebraic Topology Homotopy And Homology eBook Formats
  - o ePub, PDF, MOBI, and More
  - Algebraic Topology Homotopy And Homology Compatibility with Devices
  - Algebraic Topology Homotopy And Homology Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Algebraic Topology Homotopy And Homology
  - Highlighting and Note-Taking Algebraic Topology Homotopy And Homology
  - Interactive Elements Algebraic Topology Homotopy And Homology
- 8. Staying Engaged with Algebraic Topology Homotopy And Homology
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Algebraic Topology Homotopy And Homology
- 9. Balancing eBooks and Physical Books Algebraic Topology Homotopy And Homology
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Algebraic Topology Homotopy And Homology
- 10. Overcoming Reading Challenges
  - o Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Algebraic Topology Homotopy And Homology
  - Setting Reading Goals Algebraic Topology Homotopy And Homology
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Algebraic Topology Homotopy And Homology
  - Fact-Checking eBook Content of Algebraic Topology Homotopy And Homology
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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