

MATHEMATICS LECTURE NOTE SERIES

Algebraic Topology

A First Course

REVISED

Marvin J. Greenberg
John R. Harper

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James F. Davis and Paul Kirk



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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 obstruction theory 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 present proofs 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 and homological algebra The exposition in the text is clear special cases are presented over complex general statements

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Algebraic Topology in an accessible way without missing the main results of the topics covered **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**
 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: 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

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