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Allen Hatcher. Note: I have retired from teaching and advising students but am still active in research and writing. The best way to contact me is via email. ... Algebraic Topology. This book, published in 2002, is a beginning graduate-level textbook on algebraic topology from a fairly classical point of view.

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#### Allen Hatcher: Algebraic Topology

Allen Hatcher's Algebraic Topology, available for free download here. Our course will primarily use Chapters 0, 1, 2, and 3.

#### Math 215A: Algebraic Topology

Allen Hatcher and William Thurston, A presentation for the mapping class group of a closed orientable surface, Topology 19 (1980), no. 3, 221-237. Allen Hatcher, On the boundary curves of incompressible surfaces, Pacific Journal of Mathematics 99 (1982), no. 2, 373-377. William Floyd and Allen Hatcher, Incompressible surfaces in punctured-torus bundles, Topology and its Applications 13 (1982), no. 3, 263-282.

#### Allen Hatcher - Wikipedia

set topological nature that arise in algebraic topology. Since this is a textbook on algebraic topology, details involving point-set topology are often treated lightly or skipped entirely in the body of the text. Not included in this book is the important but somewhat more sophisticated topic of spectral sequences.

#### Preface - Cornell University

Algebraic Topology Here are pdf files for the individual chapters of the book. To get enough material for a one-semester introductory course you could start by downloading just Chapters 0, 1, and 2, along with the Table of Contents, Bibliography and Index.

#### Algebraic Topology Chapters - Cornell University

Algebraic Topology by Allen Hatcher (2001-12-03) [Allen Hatcher;} on Amazon.com. \*FREE\* shipping on qualifying offers. Will be shipped from US. Used books may not include companion materials, may have some shelf wear, may contain highlighting/notes

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We follow the geometric viewpoint due originally to Larry Smith and Luke Hodgkin, rather than the more usual algebraic approach. At present all that is written is the construction of the spectral sequences, without any applications.

#### Spectral Sequences in Algebraic Topology - Cornell University

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Allen Hatcher Cambridge University Press, 2002 - Mathematics - 544 pages 7 Reviews In most major universities one of the three or four basic first-year graduate mathematics courses is algebraic...

#### Algebraic Topology - Allen Hatcher - Google Books

Allen Hatcher is an American research mathematician and author currently at Cornell University. He specializes in Topology.

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#### Amazon.com: Customer reviews: Algebraic Topology by Allen ...

Hatcher seems to have become the standard text for algebraic topology. The book has great examples and many more illustrations than any other book I've seen on the subject. However, I sometimes feel that Hatcher rushes through results, especially in the section on covering spaces.

#### Amazon.com: Customer reviews: Algebraic Topology

Hatcher's Algebraic Topology is a surprisingly readable textbook. Although others have commented that Hatcher is insufficiently rigorous or precise, I actually enjoy that aspect of his writing; he seems to know when to write a lot of math and when a pretty picture will suffice.

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HATCHER'S ALGEBRAIC TOPOLOGY SOLUTIONS REID MONROE HARRIS Van Kampen's Theorem Problem 1. Suppose Gand Hare nontrivial groups. Suppose x= g 1h 1 ...g nh n lies in the center of G?H, where g i?Gand h i?H. For any g?G?1 H, we have gg 1h 1 ...g nh ng ?1h?1 n g ?1 n ...h ?1 1 g ?1 1 = 1. The only way for this to be true for all gis if h i= 1 H for all i.

#### Van Kampen's Theorem

An Introduction to Algebraic Topology. Springer (Graduate Texts in Mathematics), 1998. Springer (Graduate Texts in Mathematics), 1998. A blog article on " clever homotopy equivalences " by Tai-Danae Bradley