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A downloadable textbook in algebraic topology. What's in the Book? To get an idea you can look at the Table of Contents and the Preface..
Printed Version: The book was published by Cambridge University Press

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Algebraic Topology Book - Cornell University

Allen Hatcher. In most major universities one of the three or four basic first-year graduate mathematics courses is algebraic topology. This introductory text is suitable for use in a course on the subject or for self-study, featuring broad coverage and a readable exposition, with many examples and exercises. The four main chapters present the basics: fundamental group and covering spaces, homology and cohomology, higher homotopy groups, and homotopy theory generally.

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ALLEN HATCHER: ALGEBRAIC TOPOLOGY MORTEN POULSEN All references are to the 2002 printed edition. Chapter 0 Ex. 0.2. Define $H: (\mathbb{R}^n - \{0\}) \times I \rightarrow \mathbb{R}^n - \{0\}$ by $H(x,t) = (1-t)x + t|x|x$, $x \in \mathbb{R}^n - \{0\}$, $t \in I$. It is easily verified that H is a homotopy between the identity map and a retraction onto S^{n-1} , i.e. a deformation retraction. Ex. 0.3.

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

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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

Algebraic Topology: Amazon.co.uk: Hatcher, Allen: 9780521795401: Books. £28.16. RRP: £31.99. You Save: £3.83 (12%) FREE Delivery . Usually dispatched within 4 days. Dispatched from and sold by Amazon. Quantity: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 Quantity: 1.

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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...

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

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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.

Amazon.com: Customer reviews: Algebraic Topology

HATCHER'S ALGEBRAIC TOPOLOGY SOLUTIONS REID MONROE HARRIS Van Kampen's Theorem Problem 1. Suppose G and H nontrivial groups. Suppose $x = g_1 h_1 \cdots g_n h_n$ lies in the center of $G * H$, where $g_i \in G$ and $h_i \in H$. For any $g \in G$, we have $g g_1 h_1 \cdots g_n h_n g^{-1} = g_1 h_1 \cdots g_n h_n g^{-1} g_1 h_1 \cdots g_n h_n g^{-1} = 1$. The only way for this to be true for all g is if $h_i = 1$ 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

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