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topology and  $H_1(U)$  is the union of open sets of the form  $W \times W \cap I$  containing  $x \in I$ . Since  $I$  is compact, by Tube Lemma  $W \times W \cap I$  contains a tube  $V \cap I$  about  $x \in I$  where  $V$

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is a neighborhood of  $x$ . So the restriction of  $H \circ \nu$  is a map from  $V$  to  $U$ . 2. Let  $i: V \rightarrow U$  be an inclusion. Then  $i^*c = x$

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Chap. 0, Problem 16.1 Let  $R_1 := M_{n,1}$   
 $R = \mathbb{R}^n \sim x = (x_k)_{k=1}^n$ ;  $\mathbb{R}^n: x_n = 0$ ;  $\mathbb{R}^n, \mathbb{N}$   
We define a topology on  $R_1$  by declaring  
a set  $S \subseteq R_1$  closed if and only if,  $\mathbb{R}^n, 0$ ,  
the intersection  $S$  of with the finite  
dimensional subspace  $R_n = (x_k)_{k=1}^n$ ;  $x_k$   
 $= 0$ ;  $\mathbb{R}^k > n$  is closed in the Euclidean  
topology of  $R_n$ . For each  $x \in R_1$  set  $j \sim x_j$



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spaces and fundamental group (Hatcher 1.2) Homework 5: covering maps (Hatcher 1.3) Homework 6: covering spaces (Hatcher 1.3)

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the 2002 printed edition. Chapter 0 Ex.  
0.2. Define  $H: (\mathbb{R}^n - \{0\}) \times I \rightarrow \mathbb{R}^n - \{0\}$  by  
 $H(x,t) = (1-t)x +$

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Solutions for HW 6. Hatcher 1.3.24.

Suppose we have a covering space  
action of a group  $G$  on a path-connected,

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locally path-connected space  $X$ . Show: a)  
Every path-connected covering space  
between  $X$  and  $X/G$  is isomorphic to  $X/H$   
for some subgroup  $H \subset G$ . Proof. Let  $X \xrightarrow{p_1} Y \xrightarrow{p_2} X/G$  be such an ...

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Introduction to Algebraic Topology

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Nicholas Camacho Department of  
Mathematics University of Iowa Fall 2016  
Exercises are from Basic Concepts of  
Algebraic Topology by Croom. Beware:  
Some solutions may be incorrect!  
Nicholas Camacho Topology - Discussion  
Homework 1 September 1, 2016 1-3  
Prove that a set  $A = \{a_0, a_1\}$

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Carl's webpage.

## **Topology 2: Algebraic Topology**

A complete, downloadable, introductory text on Algebraic Topology, by Prof. Allen Hatcher, Cornell Univ. 3rd Ed. 553 pp. with illustrations. Available in pdf and postscript versions.

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## **Algebraic Topology Textbook - math.cornell.edu**

topology selected for their 'teachability'; these are possibly the more elegant parts of the subject. Ample suggestions for further reading are given in the last chapter. Roughly one-quarter of the book is on general topology and three-quarters on algebraic topology. The

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general topology part of the book is not presented with its usual pathologies.

## **A first course in algebraic topology**

Algebraic Topology, by Allen Hatcher  
Algebraic Topology: A First Course, by  
William Fulton Ian Coley's qualifying  
exam solutions Austin Christian's  
solutions for Fall 2016 Solution (a) M n is

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a linear space, so  $A+sH$  is in  $M^n$  for all  $s \in \mathbb{R}$  and all  $H \in M^n$ .  $S^n$  can be thought of as  $\mathbb{R}^{n+1}/\sim$ , and so  $T_0S^n$  can be identified with  $S^n$ .

## **[Books] Hatcher Solution**

Great introduction to algebraic topology. For those who have never taken a course or read a book on topology, I



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think Hatcher's book is a decent starting point. However, (IMO) you should have a working familiarity with Euclidean Geometry, College Algebra, Logic or Discrete Math, and Set Theory before attempting this book.

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not in relation to the

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topology will be found in Kelley [85], and in algebra in Jacobson [77]; or indeed in almost any other standard textbook. It will be implicitly assumed that the reader is familiar with the concepts of

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sets (and subsets), integers, and rational, real and complex numbers. 1.2 Set theory The notation  $a \in A$  means that  $a$  is an element of the set  $A$ ;  $A \subseteq B$

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