

# Algebraic Topology A Primer

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Chapter 1 Introduction Algebraic Topology is the art of turning existence questions in topology into existence questions in algebra ...

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Recall the definition of a topological space, a notion that seems incredibly opaque and complicated: Definition 1.1. A TOPOLOGICAL SPACE is a pair  $(X; T)$  where  $X$  is a set and  $T$  is a topology on  $X$ . A TOPOLOGY on  $X$  is a subset  $T \subseteq P(X)$  such that 1. the empty set and all of  $X$  are in  $T$ ; 2. if  $U_i \in T$

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As explained above, algebraic topology associates algebraic structures, like numbers, groups, rings or modules to topological spaces in such a way that continuous deformations of the underlying space lead to isomorphic algebraic structures, i.e. they give the same number, isomorphic groups, isomorphic rings and so on. In order to develop some

Mac Lane, and from J. F. Adams's Algebraic Topology: A Student's Guide. This latter book is strongly recommended to the reader who, having finished this book, wants direction for further study. I am indebted to the many authors of books on algebraic topology, with a special bow to Spanier's now classic text. My colleagues in Urbana, especially Ph.

Lecture Notes in Algebraic Topology James F. Davis Paul Kirk Author address: Department of Mathematics, Indiana University, Bloomington, IN 47405 E-mail address: jfdavis@indiana.edu, pkirk@indiana.edu

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## INTRODUCTION TO ALGEBRAIC TOPOLOGY GEOFFREY POWELL 1. GENERAL

TOPOLOGY 1.1. Topological spaces. Notation 1.1. For  $X$  a set,  $P(X)$  denotes the power set of  $X$  (the set of subsets of  $X$ ). Definition 1.2. (1) A topological space  $(X,U)$  is a set  $X$  equipped with a topology  $U \subseteq P(X)$  such that  $\emptyset, X \in U$  and  $U$  is closed under finite intersections and arbitrary unions ...

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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.

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