



**Fig. 1: Beyond Euclid: Discrete Topological Structures.** Left: Euclidean space discretized into a regular grid. Right: Discrete topological spaces that go beyond the classical discretized Euclidean space. Graphs, Cellular Complexes, Hypergraphs relax the assumption of the regular grid and allow points to be connected with more complex relationships. The arrow  $+ \text{topology}$  indicates the addition of a non-Euclidean, discrete topological structure. Adapted from [Papillon et al. \(2023\)](#).



**Fig. 2: Beyond Euclid: Continuous Geometric Structures.** Left: Euclidean space. Right: Riemannian manifolds that go beyond the classical Euclidean space. Spheres, hyperbolic spaces, and tori relax the assumption of flatness of the Euclidean space and can exhibit positive or negative curvature. The arrow  $+ \text{geometry}$  indicates the addition of a non-Euclidean, continuous geometric structure.



**Fig. 3: Beyond Euclid: Algebraic Transformations.** Left: Euclidean space. Right: Group transformations that act on the elements of an Euclidean space: 2D translation from the group  $\mathbb{R}^2$ , 2D rotation from the group  $SO(2)$ , 2D reflection from the group  $\{1, -1\}$ , and a combination of translation and rotation from the Special Euclidean group  $SE(2)$ . The arrow  $+ \text{algebra}$  indicates the addition of the non-Euclidean algebraic structure defining a group action.

# Users Guide To Algebraic Topology

**John McCleary**



## **Users Guide To Algebraic Topology:**

**A User's Guide to Algebraic Topology** C.T. Dodson,P.E. Parker,1997-02-14 We have tried to design this book for both instructional and reference use during and after a first course in algebraic topology aimed at users rather than developers indeed the book arose from such courses taught by the authors We start gently with numerous pictures to illustrate the fundamental ideas and constructions in homotopy theory that are needed in later chapters A certain amount of redundancy is built in for the reader s convenience we hope to minimize flipping back and forth and we have provided some appendices for reference The first three are concerned with background material in algebra general topology manifolds geometry and bundles Another gives tables of homo topy groups that should prove useful in computations and the last outlines the use of a computer algebra package for exterior calculus Our approach has been that whenever a construction from a proof is needed we have explicitly noted and referenced this In general wehavenot given a proof unless it yields something useful for computations As always the only way to un derstand mathematics is to do it and use it To encourage this Ex denotes either an example or an exercise The choice is usually up to you the reader depending on the amount of work you wish to do however some are explicitly stated as unanswered questions In such cases our implicit claim is that you will greatly benefit from at least thinking about how to answer them

**A User's Guide to Algebraic Topology** C. T. J. Dodson,C.T. Dodson,P.E. Parker,Phillip E. Parker,1997-01-31 This book arose from courses taught by the authors and is designed for both instructional and reference use during and after a first course in algebraic topology It is a handbook for users who want to calculate but whose main interests are in applications using the current literature rather than in developing the theory Typical areas of applications are differential geometry and theoretical physics We start gently with numerous pictures to illustrate the fundamental ideas and constructions in homotopy theory that are needed in later chapters We show how to calculate homotopy groups homology groups and cohomology rings of most of the major theories exact homotopy sequences of fibrations some important spectral sequences and all the obstructions that we can compute from these Our approach is to mix illustrative examples with those proofs that actually develop transferable calculational aids We give extensive appendices with notes on background material extensive tables of data and a thorough index Audience Graduate students and professionals in mathematics and physics

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In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Users Guide To Algebraic Topology**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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