

<<基本拓扑学>>

图书基本信息

书名：<<基本拓扑学>>

13位ISBN编号：9787506283458

10位ISBN编号：750628345X

出版时间：2008-1

出版时间：世界图书出版公司

作者：M. A. Armstrong

页数：251

版权说明：本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问：<http://www.tushu007.com>

<<基本拓扑学>>

内容概要

This is a topology book for undergraduates, and in writing it I have had two aims in mind. Firstly, to make sure the student sees a variety of different techniques and applications involving point set, geometric, and algebraic topology, without delving too deeply into any particular area. Secondly, to develop the reader's geometrical insight; topology is after all a branch of geometry. 本书为全英文版。

<<基本拓扑学>>

书籍目录

Preface Chapter 1 Introduction 1. Euler's theorem 2. Topological equivalence 3. Surfaces 4. Abstract spaces 5. A classification theorem 6. Topological invariants Chapter 2 Continuity 1. Open and closed sets 2. Continuous functions 3. A space-filling curve 4. The Tietze extension theorem Chapter 3 Compactness and connectedness 1. Closed bounded subsets of E^n 2. The Heine-Borel theorem 3. Properties of compact spaces 4. Product spaces 5. Connectedness 6. Joining points by paths Chapter 4 Identification spaces 1. Constructing a Möbius strip 2. The identification topology 3. Topological groups 4. Orbit spaces Chapter 5 The fundamental group 1. Homotopic maps 2. Construction of the fundamental group 3. Calculations 4. Homotopy type 5. The Brouwer fixed-point theorem 6. Separation of the plane 7. The boundary of a surface Chapter 6 Triangulations 1. Triangulating spaces 2. Barycentric subdivision 3. Simplicial approximation 4. The edge group of a complex 5. Triangulating orbit spaces 6. Infinite complexes Chapter 7 Surfaces 1. Classification 2. Triangulation and orientation 3. Euler characteristics 4. Surgery 5. Surface symbols Chapter 8 Simplicial homology 1. Cycles and boundaries 2. Homology groups 3. Examples 4. Simplicial maps 5. Stellar subdivision 6. Invariance Chapter 9 Degree and Lefschetz number 1. Maps of spheres 2. The Euler-Poincaré formula 3. The Borsuk-Ulam theorem 4. The Lefschetz fixed-point theorem 5. Dimension Chapter 10 Knots and covering spaces 1. Examples of knots 2. The knot group 3. Seifert surfaces 4. Covering spaces 5. The Alexander polynomial Appendix: Generators and relations Index

<<基本拓扑学>>

版权说明

本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问:<http://www.tushu007.com>