

<<微分几何>>

图书基本信息

书名：<<微分几何>>

13位ISBN编号：9787510037504

10位ISBN编号：7510037506

出版时间：2011-7

出版时间：世界图书出版公司

作者：夏普

页数：421

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>

<<微分几何>>

内容概要

《微分几何(英文影印版)》系统并深入地阐述了微分几何的概念及性质，并且全面研究了cartan联络，很适合研究生一年级学习理解。

内容体系脉络清晰，完整。

前四章全面讲述了微分拓扑、叶状结构，李群和齐次空间；第五章讲述了产生齐次空间的cartan几何，和黎曼几何产生欧几里得几何很相似。

cartan几何的一个很漂亮的方面将曲率看作是破缺对称性的精确局部度量；最后三章研究了黎曼几何、共形几何和射影几何；五个附录中介绍了cartan和ehresmann联络和从对称的角度考虑散度和旋度算子的不同特性。

目次：微分拓扑；叶状结构；微积分基本定理；klein几何；cartan几何；黎曼几何；mobius几何；射影几何。

附录：ehresmann

联络；不滑动和扭曲的滚动；一维有效klein对的分类；来自对称的微分算子；主丛的分类。

读者对象：数学专业的高年级本科生、研究生和科研人员。

<<微分几何>>

作者简介

作者：(加拿大)夏普(Sharpe.R.W.)

<<微分几何>>

书籍目录

- foreword
- note on the second printing
- preface
- 1 in the ashes of the ether: differential topology
 - 1. smooth manifolds
 - 2. submanifolds
 - 3. fiber bundles
 - 4. tangent vectors, bundles, and fields
 - 5. differential forms
- 2 looking for the forest-in the leaves: foliations
 - 1. integral curves
 - 2. distributions
 - 3. integrability conditions
 - 4. the frobenius theorem
 - 5. the frobenius theorem in terms of differential forms
 - 6. foliations
 - 7. leaf holonomy
 - 8. simple foliations
- 3 the fundamental theorem of calculus
 - .1. the maurer-cartan form
 - 2. lie algebras
 - 3. structural equation
 - 4. adjoint action
 - 5. the darboux derivative
 - 6. the fundamental theorem: local version
 - 7. the fundamental theorem: global version
 - 8. monodromy and completeness
- 4 shapes fantastic: klein geometries
 - 1. examples of planar klein geometries
 - 2. principal bundles: characterization and reduction
 - 3. klein geometries
 - 4. a fundamental property
 - 5. the tangent bundle of a klein geometry
 - 6. the meteor tracking problem
 - 7. the gauge view of klein geometries
- 5 shapes high fantastical: cartan geometries
 - 1. the base definition of cartan geometries
 - 2. the principal bundle hidden in a cartan geometry
 - 3. the bundle definition of a cartan geometry
 - 4. development, geometric orientation, and holonomy
 - 5. flat cartan geometries and uniformization
 - 6. cartan space forms
 - 7. symmetric spaces
- 6 riemannian geometry

<<微分几何>>

1. the model euclidean space
2. euclidean and riemannian geometry
3. the equivalence problem for riemannian metrics
4. riemannian space forms
5. subgeometry of a riemannian geometry
6. isoparametric submanifolds
- 7 msbius geometry
 1. the msbius and weyl models
 2. msbius and weyl geometries
 3. equivalence problems for a conformal metric
 4. submanifolds of msbius geometry
 5. immersed curves
 6. immersed surfaces
- 8 projective geometry
 1. the projective model
 2. projective cartan geometries
 3. the geometry of geodesics
 4. the projective connection in a riemannian geometry
 5. a brief tour of projective geometry
- a ehresmann connections
 1. the geometric origin of ehresmann connections
 2. the reductive case
 3. ehresmann connections generalize cartan connections
 4. covariant derivative
- b rolling without slipping or twisting
 1. rolling maps
 2. the existence and uniqueness of rolling maps
 3. relation to levi-civita and normal connections
 4. transitivity of rolling without slipping or twisting
- c classification of one-dimensional effective klein pairs
 1. classification of one-dimensional effective klein pairs
- d differential operators obtained from symmetry
 1. real representations of $so_2(r)$
 2. operators on riemannian surfaces
- e characterization of principal bundles
- bibliography
- index

<<微分几何>>

章节摘录

版权页：插图：

<<微分几何>>

编辑推荐

《微分几何(英文版)》是由世界图书出版社出版的。

<<微分几何>>

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>