

<<复流形上的微分分析>>

图书基本信息

书名：<<复流形上的微分分析>>

13位ISBN编号：9787506266048

10位ISBN编号：7506266040

出版时间：2004-4

出版公司：世界图书出版公司

作者：R.O.WELLS.Jr

页数：260

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>

<<复流形上的微分分析>>

内容概要

this book is an outgrowth and a considerable expansion of lectures given at Brandeis University in 1967-1968 and at Rice University in 1968-1969. The first four chapters are an attempt to survey in detail some recent developments in four somewhat different areas, of mathematics: geometry (manifolds and vector bundles), algebraic topology, differential geometry, and partial differential equations. In these chapters, I have developed various tools that are useful in the study of compact complex manifolds. My motivation for the choice of topics developed was governed mainly by the applications anticipated in the last two chapters. Two principal topics developed include Hodge's theory of harmonic integrals and Kodaira's characterization of projective algebraic manifolds.

<<复流形上的微分分析>>

书籍目录

Chapter I Manifolds and Vector Bundles 1. Manifolds 2. Vector Bundles 3. Almost Complex Manifolds and the $\bar{\partial}$ -Operator Chapter II Sheaf Theory 1. Presheaves and Sheaves 2. Resolutions of Sheaves 3. Cohomology Theory Appendix A. Čech Cohomology with Coefficients in a Sheaf Chapter III Differential Geometry 1. Hermitian Differential Geometry 2. The Canonical Connection and Curvature of a Hermitian Holomorphic Vector Bundle 3. Chern Classes of Differentiable Vector Bundles 4. Complex Line Bundles Chapter IV Elliptic Operator Theory 1. Sobolev Spaces 2. Differential Operators 3. Pseudodifferential Operators 4. A Parametrix for Elliptic Differential Operators 5. Elliptic Complexes Chapter V Compact Complex Manifolds 1. Hermitian Exterior Algebra on a Hermitian Vector Space 2. Harmonic Theory on Compact Manifolds 3. Representations of $sl(2, \mathbb{C})$ on Hermitian Exterior Algebras 4. Differential Operators on a Kähler Manifold 5. The Hodge Decomposition Theorem on Compact Kähler Manifolds 6. The Hodge-Riemann Bilinear Relations on a Kähler Manifold Chapter VI Kodaira's Projective Embedding Theorem 1. Hodge Manifolds 2. Kodaira's Vanishing Theorem 3. Quadratic Transformations 4. Kodaira's Embedding Theorem References Subject Index Author Index

<<复流形上的微分分析>>

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>