

<<几何分析手册 (第 卷) >>

图书基本信息

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内容概要

Moduli Spaces of Projective

Manifolds Geometric Analysis combines differential equations and differential geometry. An important aspect is to solve geometric problems by studying differential equations. Besides some known linear differential operators such as the Laplace operator, many differential equations arising from differential geometry are nonlinear. A particularly important example is the Monge-Ampere equation. Applications to geometric problems have also motivated new methods and techniques in differential equations. The field of geometric analysis is broad and has had many striking applications. This handbook of geometric analysis provides introductions to and surveys of important topics in geometric analysis and their applications to related fields which is intend to be referred by graduate students and researchers in related areas.

书籍目录

Numerical Approximations to Extremal Metrics on Toric Surfaces

R. S. Bunch, Simon K. Donaldson I

1 Introduction

2 The set-up

2.1 Algebraic metrics

2.2 Decomposition of the curvature tensor

2.3 Integration

3 Numerical algorithms: balanced metrics and refined approximations.

4 Numerical results

4.1 The hexagon

4.2 The pentagon

4.3 The octagon

4.4 The heptagon

5 Conclusions

References

Kähler Geometry on Toric Manifolds, and some other Manifolds with Large Symmetry

Götinger Constructions of Special Lagrangian Cones

Harmonic Mappings

Harmonic Functions on Complete Riemannian Manifolds

Complexity of Solutions of Partial Differential Equations

Variational Principles on Triangulated Surfaces

Asymptotic Structures in the Geometry of Stability and Extremal Metrics

Stable Constant Mean Curvature Surfaces

A General Asymptotic Decay Lemma for Elliptic Problems

Uniformization of Open Nonnegatively Curved Kähler Manifolds in Higher Dimensions

Geometry of Measures : Harmonic Analysis Meets Geometric Measure Theory

The Monge-Ampère Equation and its Geometric Applications

Lectures on Mean Curvature Flows in Higher Codimensions

Local and Global Analysis of Eigenfunctions on Riemannian Manifolds

Yau's Form of Schwarz Lemma and Arakelov Inequality On

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章节摘录

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