

<<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.

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Numerical Approximations to Extremal Metrics on Toric Surfaces

R. S. Bunch, Simon K. Donaldson I

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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

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5 Conclusions

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