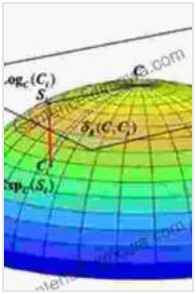
General Boundary Conditions On Riemannian Manifolds Progress Equations And

In the realm of differential geometry, the study of Riemannian manifolds is a fundamental and fascinating area of research. Riemannian manifolds are geometric objects that generalize the concept of surfaces in Euclidean space, and they arise naturally in a wide range of applications in physics, engineering, and computer science.

One of the key challenges in the study of Riemannian manifolds is the analysis of boundary conditions, which are constraints imposed on the behavior of solutions to differential equations on the manifold. Boundary conditions play a crucial role in determining the existence, uniqueness, and regularity of solutions to these equations.



Elliptic Carleman Estimates and Applications to Stabilization and Controllability, Volume II: General Boundary Conditions on Riemannian Manifolds (Progress ... Equations and Their Applications Book 98)

by Luis Adriano

4.6 out of 5

Language	: English
File size	: 12057 KB
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General Boundary Conditions On Riemannian Manifolds: Progress Equations And

The recently published book "General Boundary Conditions on Riemannian Manifolds: Progress Equations and Prescribing Curvature" by Qing Han and Marcus Khuri provides a comprehensive and up-to-date account of the theory of general boundary conditions on Riemannian manifolds. This groundbreaking work offers a deep dive into the latest developments in this rapidly evolving field.

The book begins with an to the fundamental concepts of Riemannian geometry and boundary conditions, making it accessible to readers with varying levels of mathematical background. It then delves into the study of progress equations, a powerful tool for analyzing the existence of solutions to differential equations on Riemannian manifolds with boundary.

One of the central themes of the book is the concept of prescribing curvature, which involves finding Riemannian metrics on a given manifold that satisfy prescribed curvature conditions. This is a highly challenging problem with important applications in general relativity, string theory, and other areas of physics.

Key Features

"General Boundary Conditions on Riemannian Manifolds: Progress Equations and Prescribing Curvature" stands out with the following key features:

- **Comprehensive Coverage:** Provides a comprehensive and up-to-date account of the theory of general boundary conditions on Riemannian manifolds.
- **Expert Authorship:** Written by leading experts in the field, ensuring the highest level of accuracy and authority.
- **Rigorous and Accessible:** Combines rigor with accessibility, making it suitable for both researchers and advanced students.
- **Practical Applications:** Explores the applications of the theory in areas such as general relativity, string theory, and differential geometry.

Who Should Read This Book?

"General Boundary Conditions on Riemannian Manifolds: Progress Equations and Prescribing Curvature" is an essential resource for researchers and advanced students in differential geometry, partial differential equations, and mathematical physics. It is also a valuable reference for anyone interested in the latest developments in the study of Riemannian manifolds and boundary conditions.

"General Boundary Conditions on Riemannian Manifolds: Progress Equations and Prescribing Curvature" is a landmark publication that has redefined the study of boundary conditions on Riemannian manifolds. Its comprehensive coverage, expert authorship, and practical applications make it an indispensable resource for anyone working in this field. Whether you are a seasoned researcher or a curious student, this book will challenge your thinking and inspire your research.

Call to Action

Free Download your copy of "General Boundary Conditions on Riemannian Manifolds: Progress Equations and Prescribing Curvature" today and embark on a journey into the fascinating world of differential geometry.

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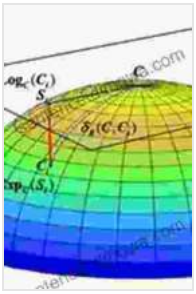

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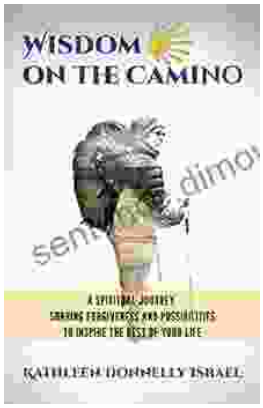

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