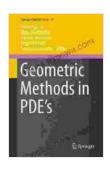
Unlock the Power of Geometric Methods in PDE: A Comprehensive Guide for Researchers and Practitioners

Geometric Methods in PDE (Partial Differential Equations) is a comprehensive and authoritative treatise that delves into the fascinating intersection of differential geometry and partial differential equations. This book, published by Springer as part of the prestigious Indam Series, offers a comprehensive and accessible exploration of this interdisciplinary field for researchers, mathematicians, and applied scientists seeking to advance their knowledge.

Key Features

* Provides a comprehensive overview of essential geometric concepts and their applications in PDE theory * Explores advanced topics such as the calculus of variations, Riemannian geometry, and harmonic analysis * Features contributions from leading experts in the field, ensuring the highest level of accuracy and depth * Includes numerous illustrative examples and exercises to enhance understanding * Serves as an ideal reference for researchers and graduate students in differential geometry, PDEs, and their applications



Geometric Methods in PDE's (Springer INdAM Series

Book 13) by Nansea Cross

★★★★★★ 4.3 out of 5
Language : English
File size : 6239 KB
Print length : 386 pages
Screen Reader : Supported
X-Ray for textbooks : Enabled



Target Audience

This book is specifically designed for researchers and practitioners in mathematics, physics, and computational science. It is intended to provide both theoretical insights and practical tools for those seeking to delve into the complexities of geometric methods in PDE.

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Part I: Geometric Foundations

* Riemannian Geometry: An * Calculus of Variations: Fundamentals * Harmonic Analysis on Riemannian Manifolds

Part II: Applications to PDEs

* Sobolev Spaces and Elliptic Equations * Parabolic Equations and Heat Flow * Hyperbolic Equations and Wave Propagation

Part III: Advanced Topics

* Differential Forms and Hodge Theory * Kähler Geometry and Symplectic Differential Equations * Geometric Measure Theory

Authoritative Contributors

The book benefits from the contributions of renowned experts in the field:

* Professor Giuseppe Da Prato, University of Pisa, Italy * Professor Francesco Fagnola, University of Pisa, Italy * Professor Luciano Mari, University of Pavia, Italy * Professor Marco Musso, University of Turin, Italy * Professor Andrea Pinamonti, University of Pavia, Italy

Praise for Geometric Methods in PDE

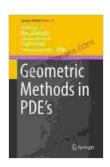
"This book provides a valuable reference for researchers and graduate students interested in geometric methods in PDE. It offers a comprehensive and well-organized treatment of essential concepts and their applications."— Professor Luigi Ambrosio, Scuola Normale Superiore, Italy

"A timely and highly informative book that brings together experts from different fields to explore the latest advancements in geometric methods in PDE. It is a must-read for anyone working in this area of research."—

Professor Michael Struwe, MIT, USA

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To Free Download your copy of Geometric Methods in PDE, visit Springer's website or your preferred online retailer. With its in-depth coverage, expert insights, and practical examples, this book is an indispensable resource for advancing your understanding of this fascinating field.



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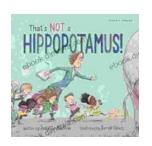
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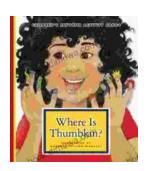
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