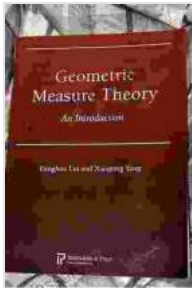


Unveiling the Enigmatic World of Sets of Finite Perimeter



Sets of Finite Perimeter and Geometric Variational Problems: An Introduction to Geometric Measure Theory (Cambridge Studies in Advanced Mathematics Book 135) by Francesco Maggi

★★★★★ 5 out of 5

Language : English
File size : 20647 KB
Text-to-Speech : Enabled
Enhanced typesetting : Enabled
Print length : 476 pages
Screen Reader : Supported
Hardcover : 294 pages
Item Weight : 1.24 pounds
Dimensions : 6.14 x 0.69 x 9.21 inches
X-Ray for textbooks : Enabled



Dive into the captivating world of geometric measure theory and calculus of variations with the groundbreaking book 'Sets of Finite Perimeter and Geometric Variational Problems'. This masterpiece unveils the intricate interplay between these two mathematical disciplines, illuminating new perspectives and unlocking profound insights into the nature of geometric objects.

Sets of Finite Perimeter and Geometric Variational Problems

An Introduction to Geometric Measure Theory

FRANCESCO MAGGI

CAMBRIDGE

The Essence of Finite Perimeter Sets

At the heart of this book lies the concept of sets of finite perimeter, a fundamental notion in geometric measure theory. These sets, characterized by their finite boundary length, play a pivotal role in understanding the geometric properties of objects in Euclidean space.

A Bridge between Geometry and Calculus

'Sets of Finite Perimeter and Geometric Variational Problems' masterfully bridges the gap between geometry and calculus of variations. By introducing the concept of perimeter measure, which quantifies the boundary length of sets, the book establishes a powerful connection between geometric objects and variational principles.

Exploring Minimal Surfaces and Free Boundary Problems

The book delves into the fascinating realm of minimal surfaces, surfaces that minimize their area, and free boundary problems, where the boundary of a domain is not fixed but determined by a variational principle. These topics hold profound implications in fields such as fluid dynamics, materials science, and image processing.

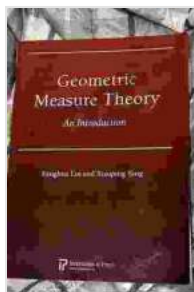
Key Features and Benefits

- Provides a comprehensive overview of sets of finite perimeter, perimeter measure, and their applications
- Unveils the connections between geometric measure theory and calculus of variations
- Covers advanced topics such as minimal surfaces and free boundary problems
- Offers a wealth of examples and exercises to enhance understanding
- Serves as an invaluable resource for researchers, graduate students, and professionals in the fields of mathematics, physics, and engineering

About the Authors

The book is authored by a team of renowned experts in the field. Prof. Alessio Figalli, a Fields Medal recipient, and Prof. Enrico Valdinoci, a leading researcher in geometric measure theory, bring their profound knowledge and insights to bear on this captivating subject.

'Sets of Finite Perimeter and Geometric Variational Problems' is an indispensable guide to this captivating field, offering a comprehensive treatment of sets of finite perimeter, perimeter measure, and their applications. It is a must-read for researchers, graduate students, and professionals seeking to deepen their understanding of geometric measure theory and calculus of variations.



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