Geometric Measure Theory. Edition No. 5

Description: Geometric Measure Theory: A Beginner’s Guide, Fifth Edition provides the framework readers need to understand the structure of a crystal, a soap bubble cluster, or a universe.

The book is essential to any student who wants to learn geometric measure theory, and will appeal to researchers and mathematicians working in the field. Brevity, clarity, and scope make this classic book an excellent introduction to more complex ideas from geometric measure theory and the calculus of variations for beginning graduate students and researchers.

Morgan emphasizes geometry over proofs and technicalities, providing a fast and efficient insight into many aspects of the subject, with new coverage to this edition including topical coverage of the Log Convex Density Conjecture, a major new theorem at the center of an area of mathematics that has exploded since its appearance in Perelman’s proof of the Poincaré conjecture, and new topical coverage of manifolds taking into account all recent research advances in theory and applications.

- Focuses on core geometry rather than proofs, paving the way to fast and efficient insight into an extremely complex topic in geometric structures
- Enables further study of more advanced topics and texts
- Demonstrates in the simplest possible way how to relate concepts of geometric analysis by way of algebraic or topological techniques
- Contains full topical coverage of The Log-Convex Density Conjecture
- Comprehensively updated throughout

Contents:

Geometric Measure Theory
Measures
Lipschitz Functions and Rectifiable Sets
Normal and Rectifiable Currents
The Compactness Theorem and the Existence of Area-Minimizing Surfaces
Examples of Area-Minimizing Surfaces
The Approximation Theorem
Survey of Regularity Results
Monotonicity and Oriented Tangent Cones
The Regularity of Area-Minimizing Hypersurfaces
Flat Chains Modulo v, Varifolds, and (M,E)-Minimal Sets
Miscellaneous Useful Results
Soap Bubble Clusters
Proof of Double Bubble Conjecture
The Hexagonal Honeycomb and Kelvin Conjectures
Immiscible Fluids and Crystals
Isoperimetric Theorems in General Codimension
Manifolds with Density and Perelman’s Proof of the Poincaré Conjecture
Double Bubbles in Spheres, Gauss Space, and Tori
The Log-Convex Density Conjecture
Solutions to Exercises


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