Geometric Measure Theory. Edition No. 4

Description: Geometric measure theory provides the framework to understand the structure of a crystal, a soap bubble cluster, or a universe. Measure Theory: A Beginner's Guide is essential to any student who wants to learn geometric measure theory, and will appeal to researchers and mathematicians working in the field. Morgan emphasizes geometry over proofs and technicalities providing a fast and efficient insight into many aspects of the subject.

New to the 4th edition:
Abundant illustrations, examples, exercises, and solutions.
The latest results on soap bubble clusters,
including a new chapter on "Double Bubbles in Spheres, Gauss Space, and Tori."
A new chapter on "Manifolds with Density and Perelman's Proof of the Poincaré Conjecture."
Contributions by undergraduates.

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
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