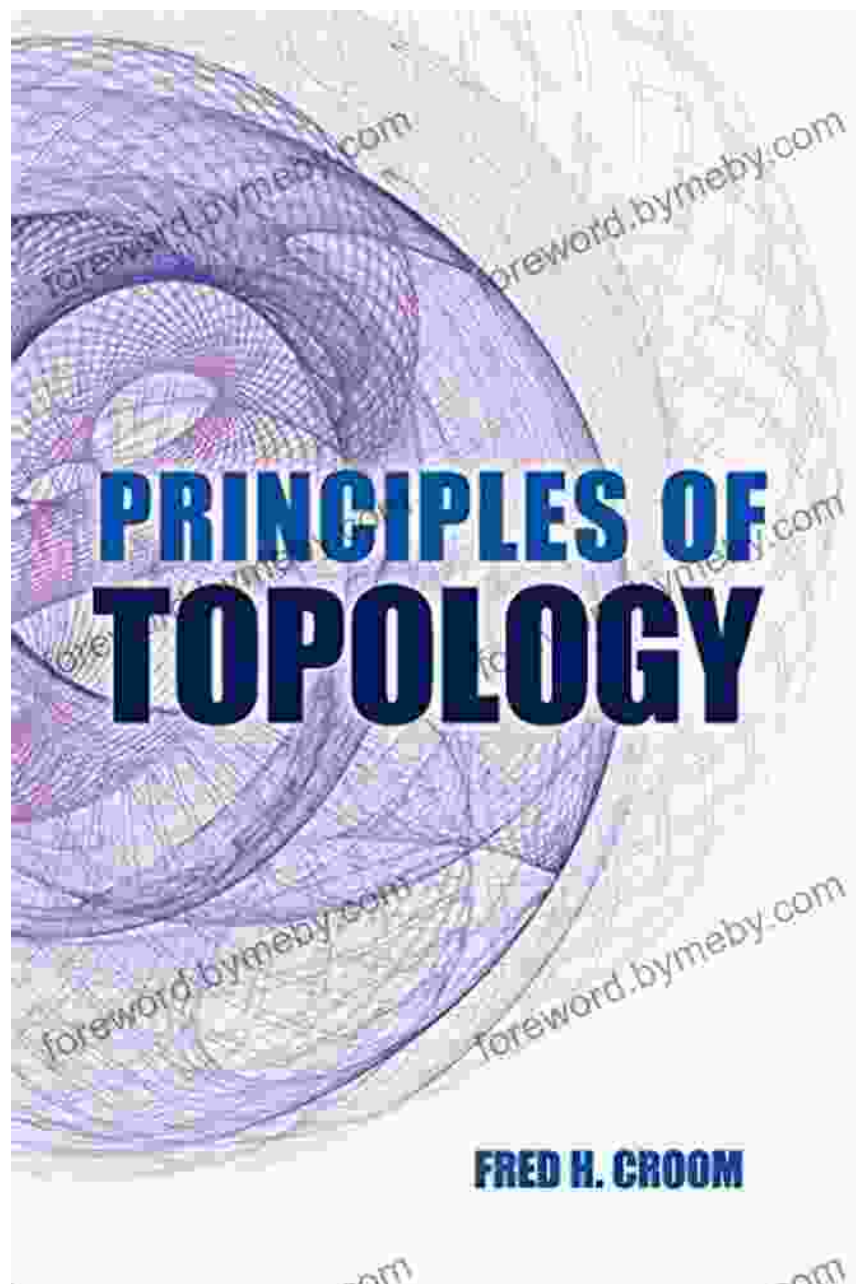


Principles of Topology: A Comprehensive Exploration

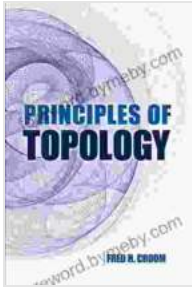


Principles of Topology (Dover Books on Mathematics)

by Fred H. Croom

★★★★★ 4.5 out of 5

Language : English



File size	: 14898 KB
Text-to-Speech	: Enabled
Screen Reader	: Supported
Enhanced typesetting	: Enabled
Print length	: 501 pages
Lending	: Enabled



About the Book

Topology is a branch of mathematics that deals with the study of geometric properties that are invariant under continuous deformations, such as stretching, bending, or twisting. It has applications in various fields, including geometry, analysis, and physics.

Principles of Topology provides a comprehensive to the subject, covering topics such as:

- Point-set topology: The study of topological spaces, which are sets endowed with a structure that defines when two points are considered close to each other.
- Algebraic topology: The study of topological spaces using algebraic tools, such as homology and cohomology.
- Differential topology: The study of smooth manifolds, which are topological spaces that are locally similar to Euclidean space.

This book is written in a clear and concise style, with numerous examples and exercises to help readers understand the concepts. It is an ideal

textbook for undergraduate and graduate students in mathematics, as well as a valuable resource for researchers in the field.

Table of Contents

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2. Point-Set Topology
 - Topological Spaces
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 - Compactness
 - Connectedness
- Algebraic Topology
 - Homology
 - Cohomology
 - Applications to Geometry
- Differential Topology
 - Smooth Manifolds
 - Vector Bundles
 - Characteristic Classes

Author

Frederick H. Croom is a Professor of Mathematics at the University of California, Berkeley. He is the author of numerous books and papers on topology and differential geometry.

Reviews

"Principles of Topology is an excellent textbook for both undergraduate and graduate students. It provides a clear and concise to the subject, with numerous examples and exercises to help readers understand the concepts." - **Mathematical Reviews**

"Croom's book is a valuable resource for researchers in topology. It provides a comprehensive and up-to-date treatment of the subject." -

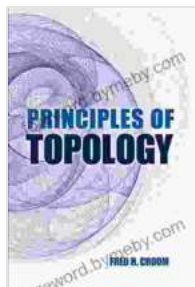
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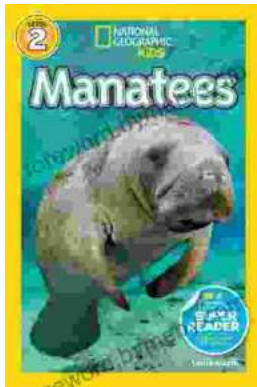
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