Topology for Computing: Cambridge Monographs on Applied and Computational Mathematics

Topology is a branch of mathematics that studies the properties of figures that do not change when they are bent, stretched, or compressed. It has applications in a wide variety of fields, including computer science, physics, and engineering.

This book provides a comprehensive to topology for computer scientists. It covers the basics of topology, including set theory, functions, and relations. It also introduces more advanced topics such as homology and cohomology. The book is written in a clear and concise style, and it includes many examples and exercises to help the reader understand the material.

Topology for Computing (Cambridge Monographs on Applied and Computational Mathematics Book 16)

by Afra J. Zomorodian

★★★★☆ 4.8 out of 5

Language   : English
File size   : 12267 KB
Print length : 243 pages

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2. Set Theory

3. Functions

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9. Homology

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Applications

Topology has applications in a wide variety of fields, including:

- Computer science

- Physics

- Engineering

- Biology

- Economics

In computer science, topology is used in a variety of applications, including:

- Computer graphics

- Computer networks

- Artificial intelligence

- Databases

- Cryptography

In physics, topology is used in a variety of applications, including:

- General relativity

- Quantum mechanics

- Condensed matter physics

In engineering, topology is used in a variety of applications, including:

- Mechanical engineering

- Electrical engineering

- Civil engineering

Topology is a powerful tool that has applications in a wide variety of fields. This book provides a comprehensive to topology for computer scientists. It covers the basics of topology, as well as more advanced topics such as homology and cohomology. The book is written in a clear and concise style, and it includes many examples and exercises to help the reader understand the material.

If you are interested in learning more about topology, I encourage you to read this book. It is a valuable resource for anyone who wants to use topology in their work.
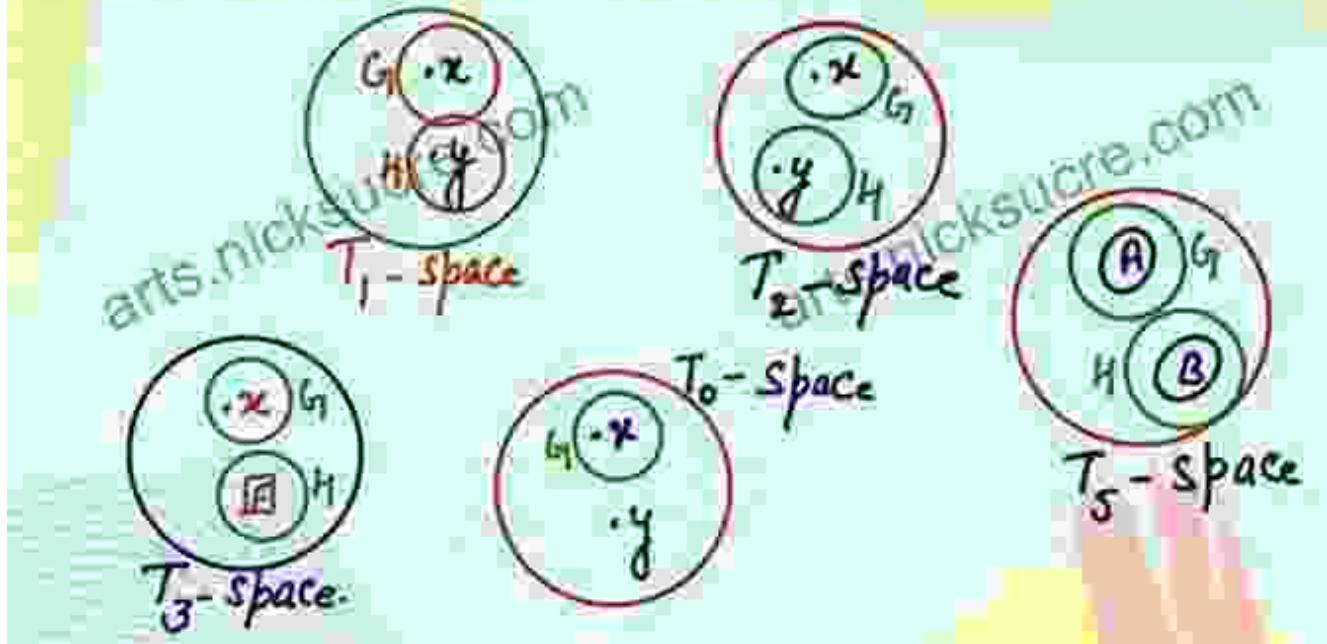
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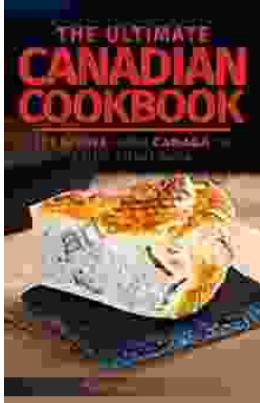
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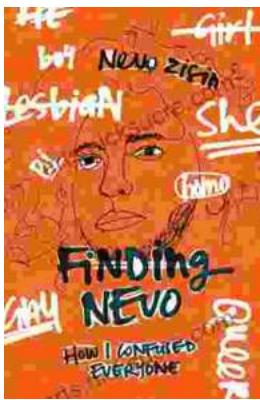
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