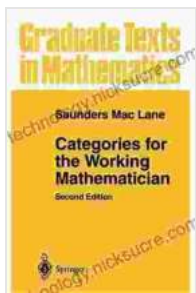


Categories For The Working Mathematician Graduate Texts In Mathematics

Category theory is a branch of mathematics that studies the structure of mathematical objects and the relationships between them. It is a powerful tool for understanding and studying a wide range of mathematical topics, including algebra, topology, and geometry.

Categories for the Working Mathematician is a graduate-level textbook that provides a comprehensive to category theory. The book is written in a clear and concise style, and it includes numerous examples and exercises to help students learn the material.

The book is divided into four parts:



Categories for the Working Mathematician (Graduate Texts in Mathematics Book 5) by Saunders Mac Lane

★★★★☆ 4.4 out of 5

Language : English
File size : 10289 KB
Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting : Enabled
Print length : 331 pages



- **Part 1:** Foundations of category theory
- **Part 2:** Categories of sets and functions

- **Part 3:** Categories of algebraic structures
- **Part 4:** Applications of category theory

The first part of the book introduces the basic concepts of category theory, including categories, objects, morphisms, and functors. The book also discusses the basic operations on categories, such as products, coproducts, and limits.

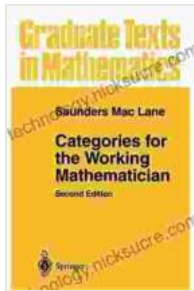
The second part of the book studies the category of sets and functions. The book discusses the basic properties of sets and functions, and it also introduces the concept of a category of sets. The book also discusses the relationship between the category of sets and other categories, such as the category of groups and the category of rings.

The third part of the book studies the categories of algebraic structures. The book discusses the basic properties of algebraic structures, such as groups, rings, and modules. The book also introduces the concept of a category of algebraic structures. The book also discusses the relationship between the category of algebraic structures and other categories, such as the category of sets and the category of functions.

The fourth part of the book discusses the applications of category theory to other branches of mathematics. The book discusses the applications of category theory to algebra, topology, and geometry. The book also discusses the applications of category theory to computer science and physics.

Categories for the Working Mathematician is a comprehensive and well-written to category theory. The book is a valuable resource for graduate

students and researchers who are interested in learning about category theory.



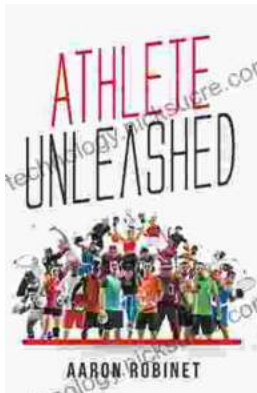
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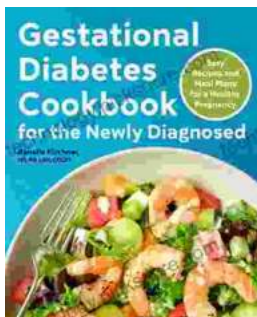
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