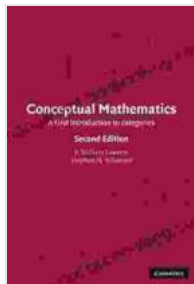


Conceptual Mathematics: Your First Introduction to Categories



Conceptual Mathematics: A First Introduction to Categories by F. William Lawvere

★★★★☆ 4.4 out of 5

Language : English
File size : 10857 KB
Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting : Enabled
Print length : 410 pages



Name: _____

Grouping into Categories

Directions: Match the pictures to their correct categories. Draw a line from each picture to the matching category. Cut out the pictures and categories and put them into groups.

fruit

shapes

animals

plants



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About the Book

Conceptual Mathematics: Your First to Categories is a clear and concise to the fundamental concepts of category theory, with a focus on the graphical representation of mathematical structures.

Category theory is a powerful tool that can be used to unify and simplify a wide range of mathematical concepts, from abstract algebra to topology to computer science. However, category theory can also be a challenging subject to learn, due to its abstract nature and unfamiliar terminology.

This book is designed to make category theory accessible to a wide audience, including undergraduate students, graduate students, and working mathematicians. The book uses a循序渐进step-by-step approach, starting with the most basic concepts and gradually building up to more complex topics.

The book is also heavily illustrated, with over 100 diagrams and figures. These diagrams help to make the concepts of category theory more concrete and easier to understand.

What You Will Learn

In this book, you will learn the following:

- The basic concepts of category theory, such as categories, objects, morphisms, and functors.
- How to represent mathematical structures graphically using category theory.
- How to use category theory to solve problems in a wide range of mathematical disciplines.

Who This Book Is For

This book is ideal for undergraduate students, graduate students, and working mathematicians who want to learn the basics of category theory.

The book is also suitable for self-study.

Table of Contents

- 1.
2. Categories
3. Objects and Morphisms
4. Functors
5. Natural Transformations
6. Limits and Colimits
7. Applications of Category Theory

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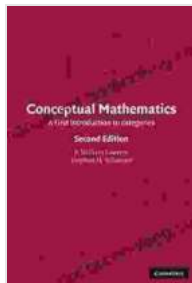
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Reviews

"Conceptual Mathematics is a clear and concise to the fundamental concepts of category theory. The book is well-written and well-organized, and it includes a wealth of examples and exercises." — **MAA Reviews**

"Conceptual Mathematics is a valuable resource for anyone who wants to learn category theory. The book is clear, concise, and well-written, and it provides a comprehensive to the subject." — **Zentralblatt MATH**

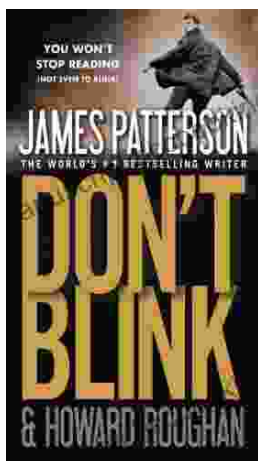


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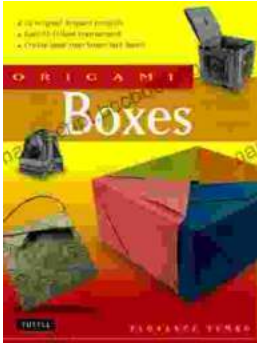
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