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closed categories. Four case studies illustrate applications of category theory to programming language design, semantics, and the solution of recursive domain equations.

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Basic Category Theory for Computer Scientists | The MIT Press

This book is a textbook in basic category theory, written speciflcally to be read by researchers and students in computing science. We expound the con-structions we feel are basic to category theory in the context of examples

and applications to computing science. Some categorical ideas and constructions

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mathematics that is becoming an increasingly important tool in theoretical computer science, especially in programming language semantics, domain theory, and concurrency, where it is already a standard language of discourse.

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Category Theory for Computer Scientists you're familiar with proof-writing, set theory, functional programming, and denotational semantics. In return, Category Theory wastes none of your time. I found this refreshing, but unexpected. I'll give a brief overview of the contents of the book before discussing

them. **Scientists**

Book Review: Basic Category Theory for Computer Scientists

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Category theory formalizes mathematical structure and its concepts in terms of a labeled directed graph called a category, whose nodes are called objects, and whose labelled directed edges are called arrows. A

category has two basic properties: the ability to compose the arrows associatively, and the existence of an identity arrow for each object. The language of category theory has been used to formalize concepts of other high-level abstractions such as sets, rings, and groups. Informally, cate

Category theory - Wikipedia

condition' are common in category theory. The phrase means that there is one and only one such-and-such satisfying the condition. To prove the existence part, we have to show that there is at least one. To prove the uniqueness part, we have to show that there is at most one; in other words, any two such-and-suches satisfying the condition are equal.

Basic Category Theory

Theory - arXiv
The basic parts of a computer are as
follows − Input Unit −
Devices like keyboard
and mouse that are
used to input data and
instructions to the
computer are called
input unit. Output Unit
− Devices like printer
and visual display unit
that are used to
provide information to
the user in desired

format are called output unit.

Basics of Computers - Introduction - Tutorialspoint

After defining categories and introducing the most basic categories, Pierce describes and defines the most basic ideas in category theory: subcategories, commutative diagrams, monomorphisms,

epimorphisms, isomorphisms, initial/terminal objects, products, coproducts, universal constructions, equalizers, pullbacks, pushouts, limits, cones, colimits, cocones, exponentiation, and closed Cartesian categories.

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