Alley Cats and Boxes

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Introduction

0.2 About This Book

Classical Theory of Relations

- 1.1 Expressions, Sets, Functions, and Relations
- 1.2 Partially-Ordered Sets
- 1.3 Comparing and Composing Relations
- 1.4 Transposition and Inverse
- 1.5 Functions versus Relations
- 1.6 Equivalence Relations and Quotients

Modal Logic

Review: Classical Logic

- 2.1 Motivation
- 2.2 Kripke Semantics for Basic Modal Logic
- 2.3 Bisimulations
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Review: Category Theory

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- 3.4 Regular Categories and Allegories
- 3.5 Tabulation, Division, and Distribution
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Advanced Topics

Review: Dependent Type Theory

- 4.1 The Allegory of Categories
- 4.2 Allegories in Homotopy Type Theory
- 4.3 Dynamic Topological Logic
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- 4.8 Kripke-Joyal Semantics
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- 4.10 Reflective Subcategories and Modalities
- 4.11 (Co)monads and Modality
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