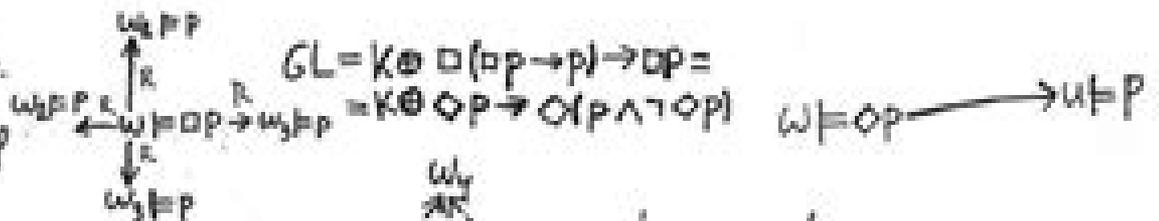


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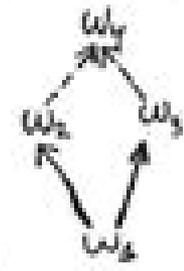
$$M, x \models \Box \varphi \iff \exists y \in R(x) M, y \models \varphi$$



$$K \vdash \Box(\varphi \vee \psi) \iff \Box\varphi \vee \Box\psi$$

Theorem  $S4 = \text{Log}(P)$  where  $P$  is the class of all preorders

**Sergokell**



Lemma Let  $M$  be a Kripke model and  $\Gamma$  a set of formulas closed under subformulas, then  $M, x \models \varphi \iff M, \bar{x} \models \varphi$ , where  $\varphi \in \Gamma$ .

$$K4 = K \oplus \Box\Box p \rightarrow \Box p$$

# Incomplete and Utter

Hilbert-Bernays-Löb condition

- $PA \vdash A \Rightarrow PA \vdash \Box A$  ( $\Box A$ )
- $PA \vdash \Box(A \rightarrow B) \rightarrow (\Box A \rightarrow \Box B)$
- $PA \vdash \Box(\Box A) \rightarrow \Box(\Box A)$

$$\frac{\Box \Gamma p \rightarrow \Box \Gamma p}{\Box \Gamma p \rightarrow \Box \Gamma \Box p}$$

# Introduction to

# Modal Logic

Let  $X = \langle X, \tau \rangle$  be a topological space and  $A \subseteq X$ . An interior of  $A$  is the set

$$I(A) = \bigcup \{B \in \tau \mid B \subseteq A\}$$

Topology rules:

- $I(A) \subseteq A$
- $I(I(A)) = I(A)$
- $A \subseteq B \Rightarrow I(A) \subseteq I(B)$
- $I(A \cap B) = I(A) \cap I(B)$

$$\Box \top \leftrightarrow \Box \Box p \rightarrow \Box p$$

$$PA \vdash \perp \iff PA \vdash \Box \perp$$

Danya Rogozin

$$M, x \models \Box \perp \iff R(x) = \emptyset$$

- $f: W_1 \rightarrow W_2$  is a p-morphism:
- $a R_1 b \Rightarrow f(a) R_2 f(b)$
  - $f(a) R_2 c \Rightarrow \exists b \in W_1$  s.t.  $f(b) = c$  &  $a R_1 b$

$$S4 \vdash \Box \Box p \leftrightarrow \Box p$$

There is a possibility that never that never goes out.

$$M, x \models \Box^n \varphi \iff \exists y \in R^n(x) M, y \models \varphi$$

# Companion To Modal Logic

**KJ Lindholm-Leary**



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## **Table of Contents Companion To Modal Logic**

1. Understanding the eBook Companion To Modal Logic
  - The Rise of Digital Reading Companion To Modal Logic
  - Advantages of eBooks Over Traditional Books
2. Identifying Companion To Modal Logic
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Companion To Modal Logic
  - User-Friendly Interface
4. Exploring eBook Recommendations from Companion To Modal Logic
  - Personalized Recommendations
  - Companion To Modal Logic User Reviews and Ratings
  - Companion To Modal Logic and Bestseller Lists
5. Accessing Companion To Modal Logic Free and Paid eBooks

- Companion To Modal Logic Public Domain eBooks
  - Companion To Modal Logic eBook Subscription Services
  - Companion To Modal Logic Budget-Friendly Options
6. Navigating Companion To Modal Logic eBook Formats
    - ePub, PDF, MOBI, and More
    - Companion To Modal Logic Compatibility with Devices
    - Companion To Modal Logic Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Companion To Modal Logic
    - Highlighting and Note-Taking Companion To Modal Logic
    - Interactive Elements Companion To Modal Logic
  8. Staying Engaged with Companion To Modal Logic
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Companion To Modal Logic
  9. Balancing eBooks and Physical Books Companion To Modal Logic
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Companion To Modal Logic
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Companion To Modal Logic
    - Setting Reading Goals Companion To Modal Logic
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Companion To Modal Logic
    - Fact-Checking eBook Content of Companion To Modal Logic
    - Distinguishing Credible Sources
  13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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