Notes on Modal Logic

Xin Chen Last update: March 1, 2023

Textbook: the Blue Book Recommendation: Davey and Priestley, Introduction to Lattices and Order, CUP second edition, 2002. 陈老师教授的方法论: Definition.... Example.... Proposition... Lemma... Theorem... Corollary... Table 1: 一般文章的结构 中间的内容一般是说明性的,或者是过渡段。但有时候这些内容也会影响对概念的理解。 **Contents** 1 Basic Concepts 1 1 **Basic Concepts** 1.1 relational structures 定义 1.1 (relational structures). A relational structure is a tuple $\mathfrak{F} = (W, R_i)_{i \in I}$, where $W \neq \emptyset$ and R_i is a relation on W for each $i \in I$, moreover $I \neq \emptyset$, namely $\mathfrak F$ contains at least one relation. Note: R_i can with arbitrary arity. For relational structure (W, R): • strict partial order: • linear order (total order): • partial order:

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定义 1.2 ((reflexive) transitive closure). 内容...