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<<离散数学>>

图书基本信息

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章节摘录

版权页： 插图： We have seen how to construct a new relation by compositing two existing relations.Let's look at another way to construct a new relation from an existing relation. We willstart with a binary relation R and try to construct another relation containing R that alsosatisfies some particular properties. If R is a relation on a set A and P is a property, such as being reflexive, symmetric, ortransitive, then the P closure of R is the smallest binary relation that contains R andsatisfies property P. We denote the P closure of R by P (R). If R already satisfiesproperty P, then we have R = P(R). We will be concerned with three properties: reflexivity, symmetry, and transitivity. Thereflexive closure of R is denoted by r(R), the symmetric closure of R is denoted bys(R), and the transitive closure of R is denoted by t(R).Our goal is to find some techniques to compute these closures. We will start with arunning example to introduce the main idea.

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