

We have, for example,

Theorem 4.1. Let the sets B, C belong to some PRC class \mathcal{E} . Then so do the sets $B \cup C, B \cap C, \bar{B}$.

Proof. This is an immediate consequence of Theorem 5.1, Chapter 3. ■

As long as the Gödel numbering functions $[x_1, \dots, x_n]$ and $(x)_i$ are available, we can restrict our attention to subsets of N . We have, for example,

Theorem 4.2. Let \mathcal{E} be a PRC class, and let B be a subset of N^m , $m \geq 1$. Then B belongs to \mathcal{E} if and only if

$$B' = \{[x_1, \dots, x_m] \in N \mid (x_1, \dots, x_m) \in B\}$$

belongs to \mathcal{E} .

Proof. If $P_B(x_1, \dots, x_m)$ is the characteristic function of B , then

$$P_{B'}(x) \Leftrightarrow P_B((x)_1, \dots, (x)_m) \ \& \ \text{Lt}(x) = m$$

is the characteristic function of B' , and $P_{B'}$ clearly belongs to \mathcal{E} if P_B belongs to \mathcal{E} . On the other hand, if $P_{B'}(x)$ is the characteristic function of B' , then

$$P_B(x_1, \dots, x_m) \Leftrightarrow P_{B'}([x_1, \dots, x_m])$$

is the characteristic function of B , and P_B clearly belongs to \mathcal{E} if $P_{B'}$ belongs to \mathcal{E} . ■

It immediately follows, for example, that $\{[x, y] \in N \mid \text{HALT}(x, y)\}$ is not a computable set.

Definition. The set $B \subseteq N$ is called *recursively enumerable* if there is a partially computable function $g(x)$ such that

$$B = \{x \in N \mid g(x) \downarrow\}. \quad (4.1)$$

The term *recursively enumerable* is usually abbreviated *r.e.* A set is recursively enumerable just when it is the domain of a partially computable function. If \mathcal{P} is a program that computes the function g in (4.1), then B is simply the set of all inputs to \mathcal{P} for which \mathcal{P} eventually halts. If we think of \mathcal{P} as providing an algorithm for testing for membership in B , we see that for numbers that do belong to B , the algorithm will provide a

Computability Complexity And Languages Exercise Solutions

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