Problem

Consider the coding and decoding functions E and D defined in Example 7.1.9.

a. Find $E($0110$)$ and $D($111111000111$)$.

b. Find $E($1010$)$ and $D($000000111111$)$.

Step-by-step solution

Step 1 of 3

E is the encoding function and D is the decoding function

Step 2 of 3

(a) $E(0110) = 000111111000$

$D(111111000111) = 1101$

Step 3 of 3

(b) $E(1010) = 111000111000$

$D(000000111111) = 0011$