Chapter 7.1, Problem 29E

Problem

Consider the Hamming distance function defined in Example 7.1.10.

a. Find *H*(10101, 00011)

b. Find H(00110, 10111).

Step-by-step solution

Step 1 of 3 *H* is the Hamming distance function Step 2 of 3 (a) H(10101,00011) = d(1,0) + d(0,0) + d(1,0) + d(1,1) = 1 + 0 + 1 + 1 + 0 = 3 $\therefore H(10101,00011) = 3$ Step 3 of 3 (b) H(00110,10111) = d(0,1) + d(0,0) + d(1,1) + d(0,1) = 1 + 0 + 0 + 0 + 1 = 2 $\therefore H(00110,10111) = 2$

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