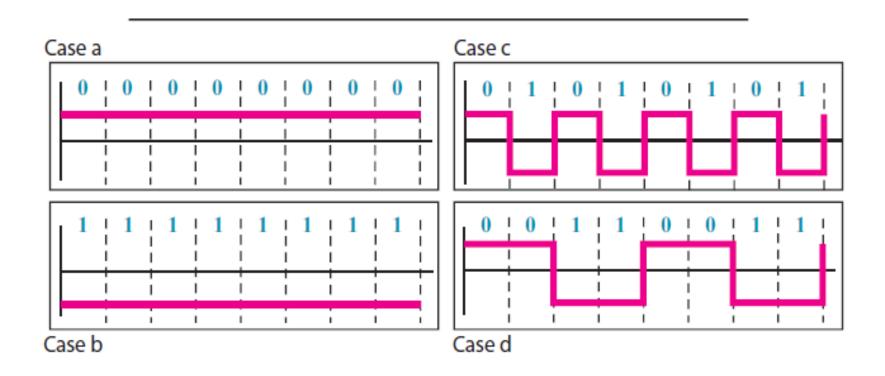
Exercises of line encoding

Shabir Ali

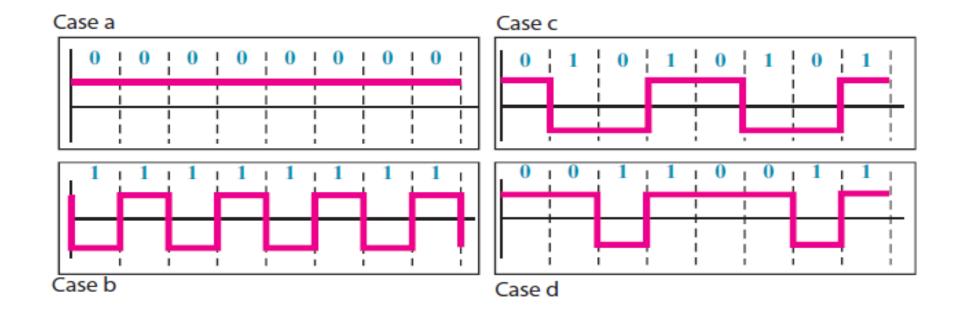
Exercise

- Draw the graph of the NRZ-L scheme using each of the following data streams, assuming that the last signal level has been positive.
- a. 00000000 b. 11111111 c. 01010101 d. 00110011



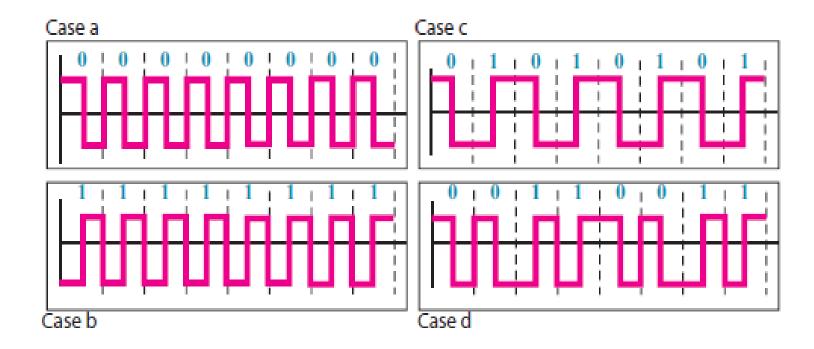
Question-2

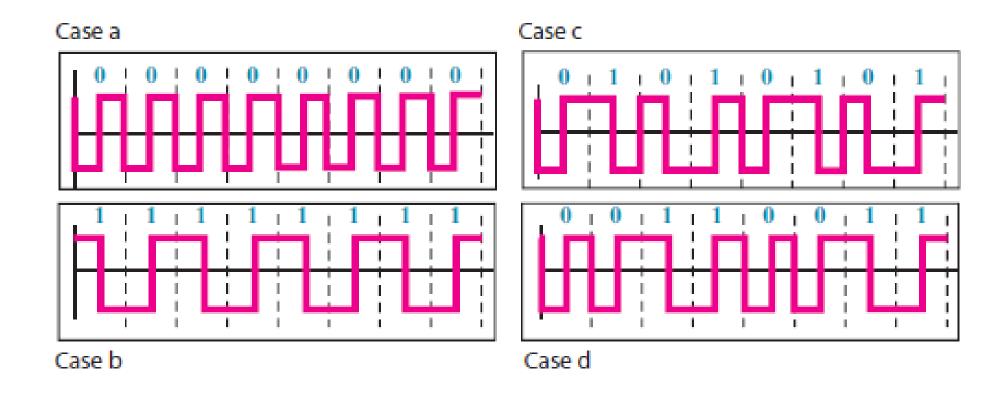
• Repeat Problem 1 for the NRZ-I scheme.



Question-3 and 4

- Repeat Problem 1 for the Manchester scheme.
- Repeat Problem 1 for the differential Manchester scheme.

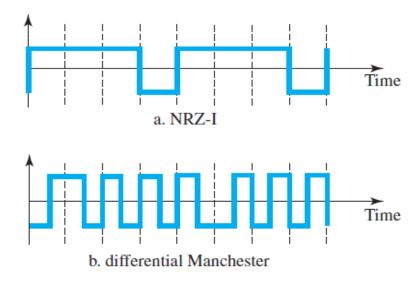




Question-5

P4-9. Find the 8-bit data stream for each case depicted in Figure 4.36.

Figure 4.36 Problem P4-9



• The data stream can be found as

a. NRZ-I: **10011001**.

b. Differential Manchester: 11000100.