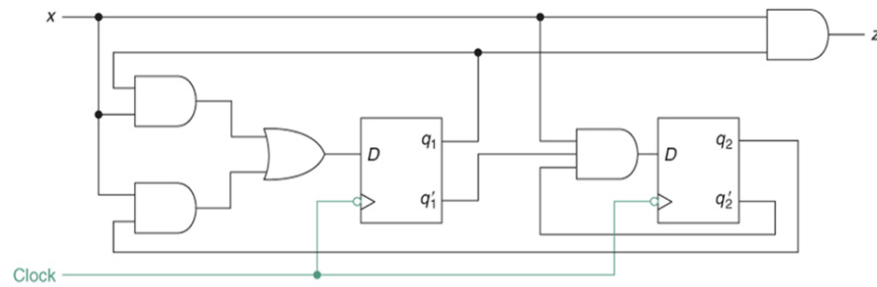


1. Sequential circuit analysis

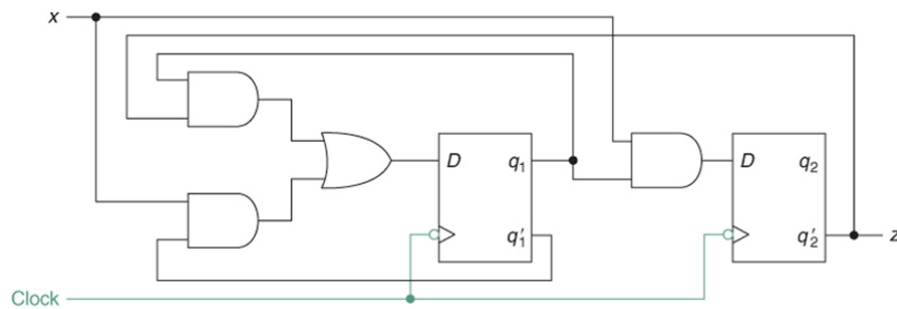


(1-a) Moore or Mealy? Why?

(1-b) Draw state table

(1-c) Draw state diagram

2. Sequential circuit analysis



(2-a) Moore or Mealy? Why?

(2-b) Draw state table.

(2-c) Draw state diagram.

3. Ordered Binary Decision Diagram

Draw BDD for the function $F = ab + cd$. Assume that input order is a, b, c, d .

4. Ordered Binary Decision Diagram

(4-a) Explain the purpose of Ordered Binary Decision Diagram(OBDD).

(4-b) Draw a BDD for function $f = ab' + acd$. Assume that input order is b, c, a, d .

5. CMOS Circuit design

Draw a CMOS circuit design of the function $f = ab + cd$.