

The circuit shown in Figure 1 will be analyzed.

- 1) Find the Boolean functions of the flip-flop inputs (D_A , D_B).
- 2) Find the Boolean functions of the output (Z).
- 3) Find the state equations for A, B. ($Q=D$, $Q(t+1)=D$)
- 4) Draw the state transition table of the circuit.

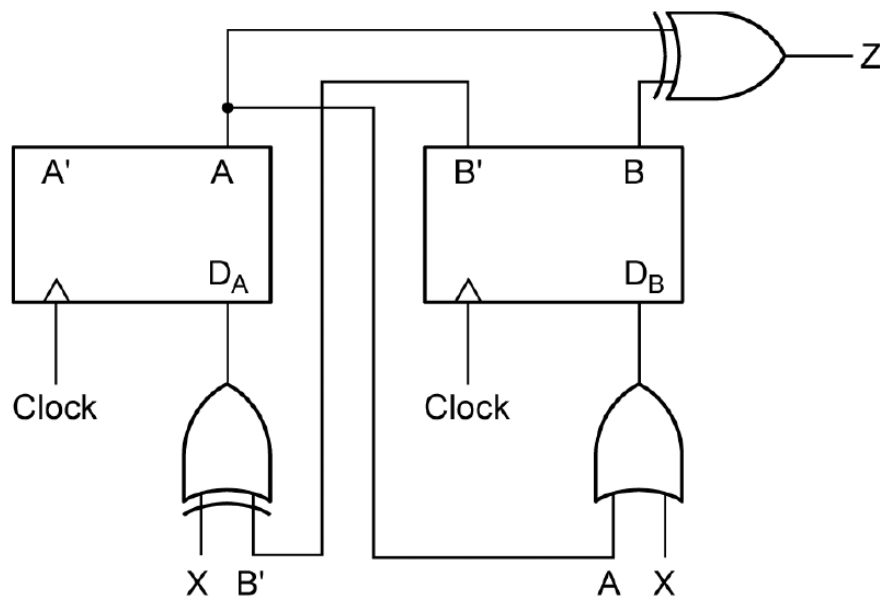


Figure 1