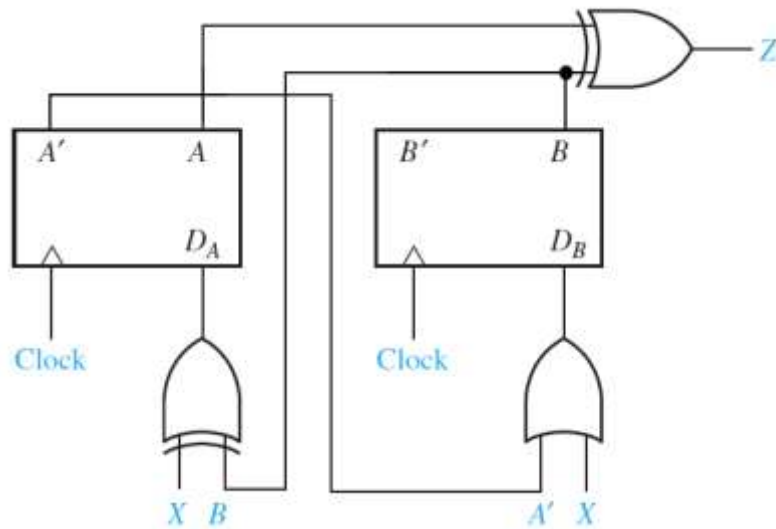


Homework 12-13

First Name:
Last Name:
Red ID#:

12.1

Derive the equations of next state A^+B^+ and output Z as a function of A, B, X for the following circuit:

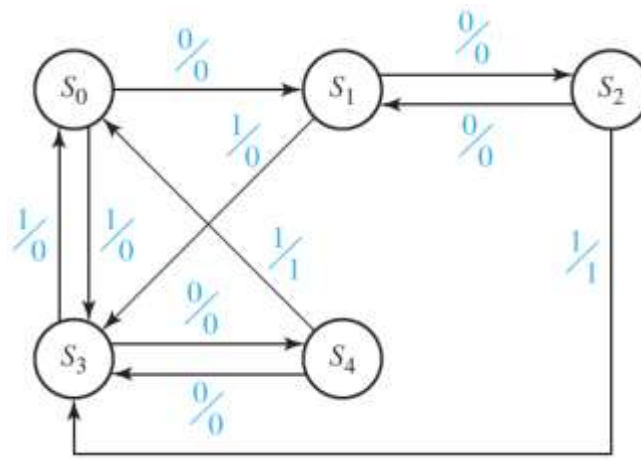


12.2

Fill up the next state table (truth table) and draw the state graph of the sequential circuit in 12.1. Is it a Moore circuit or Mealy circuit? Justify your answer.

12.3

Fill up the next state table and derive the next state equations for the following state graph:



12.4

Realize the sequential circuit that performs the function specified in the state graph of 12.3. Is it a Moore circuit or Mealy circuit? Justify your answer.

13.1

Construct the state table for the following state graph:

