Homework 11 Solutions

Roth Book Problems

8.1

8.3 (a)

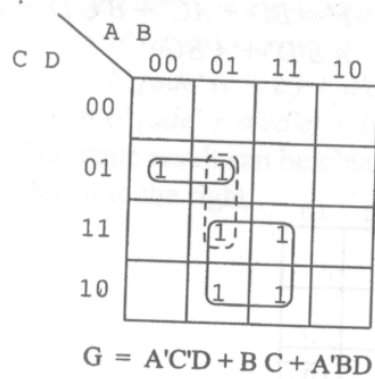Glitch
(static '1'hazard)

Glitch
(static '1' hazard)

8.3 (b).
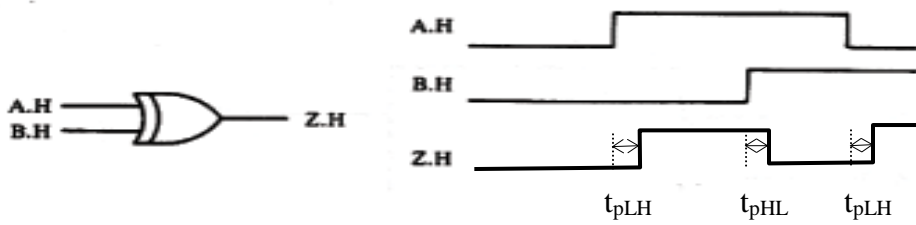

$$G = A'C'D + B\,C + A'BD$$
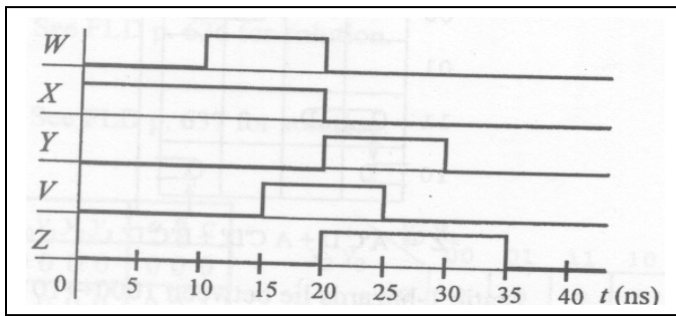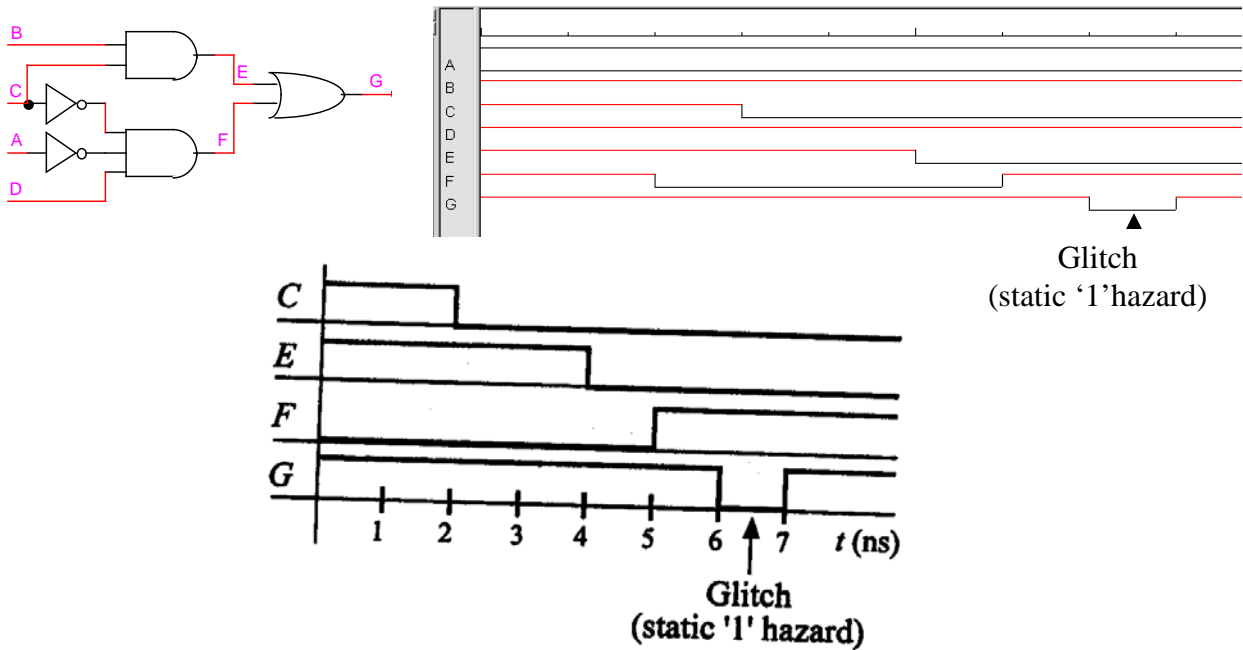
Lam Book Problems

4.20

# of CS inputs that can be driven when low = $I_{OL(74LS02)}$ / $-I_{IL(Mem)}$ = 8mA/40μA = 200
# of CS inputs that can be driven when high = $-I_{OH(74LS02)}$ / $I_{IH(Mem)}$ = 0.4mA/40μA = 10
FAN OUT = min(FO$_L$, FA$_H$) = **10**

4.23

4.24