

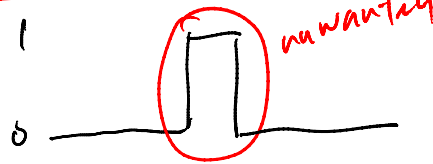
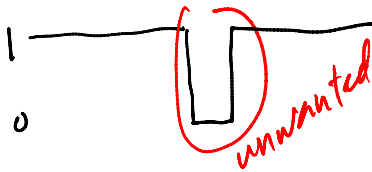
Monday, April 27, 2009  
12:39 PM

Hazard (page 638, 639, 640, 643 - 645)  
concentrate on figures 9.62, 9.64, 9.65,

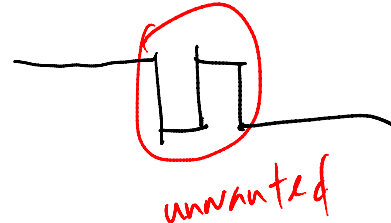
last project check-off day is 5/13 1-3pm  
BE THERE!

class final 5/5 8:40 AM - 11:30 AM

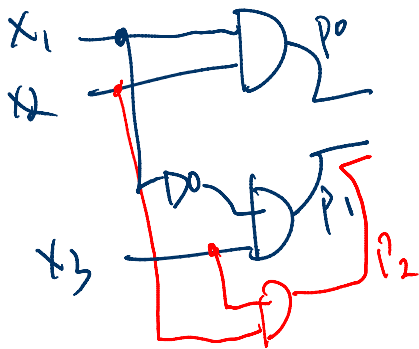
static hazard



dynamic hazard



$$f = x_1 x_2 + \bar{x}_1 x_3$$



$x_2 \backslash x_1$	$x_1$	
	0	1
0	0	0
1	1	1
2	1	1
3	1	1

all gates has 2ns propagation delay!

$$x_1 = x_2 = x_3 = 1 \Rightarrow f = 1$$

$$x_1 \text{ change from } 1 \rightarrow 0 \Rightarrow f = 0$$

$$x_2 = x_3 = 1 \Rightarrow f = 1$$

$$f = x_1 x_2 + \bar{x}_1 x_3 + x_2 x_3$$