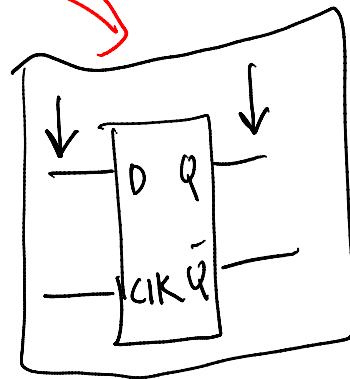
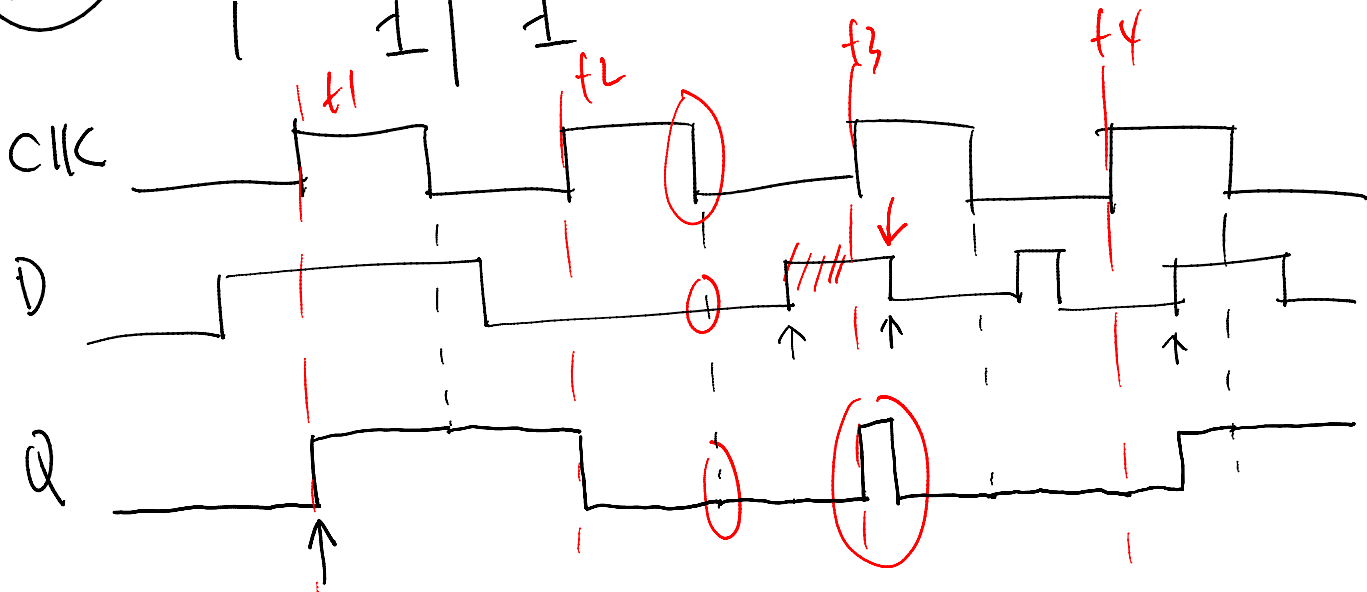


Symbol



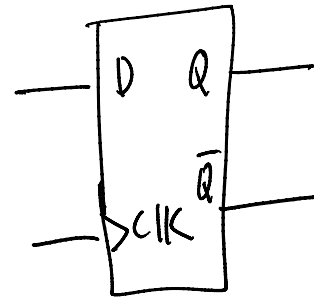
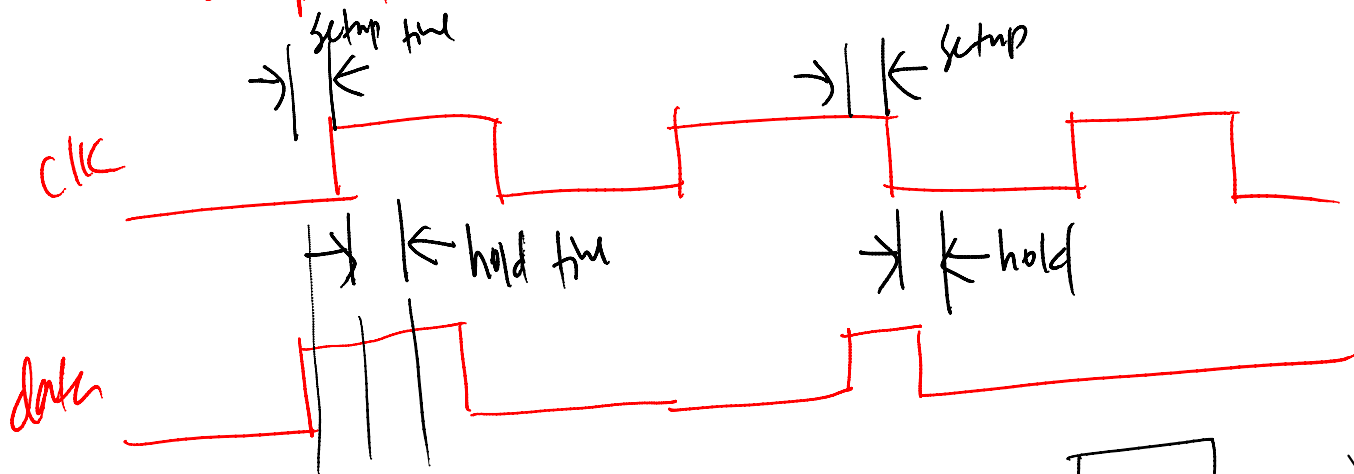
CLK	D	$Q(t+1)$
0	X	$Q(t)$
1	0	0
1	1	1

(latch)

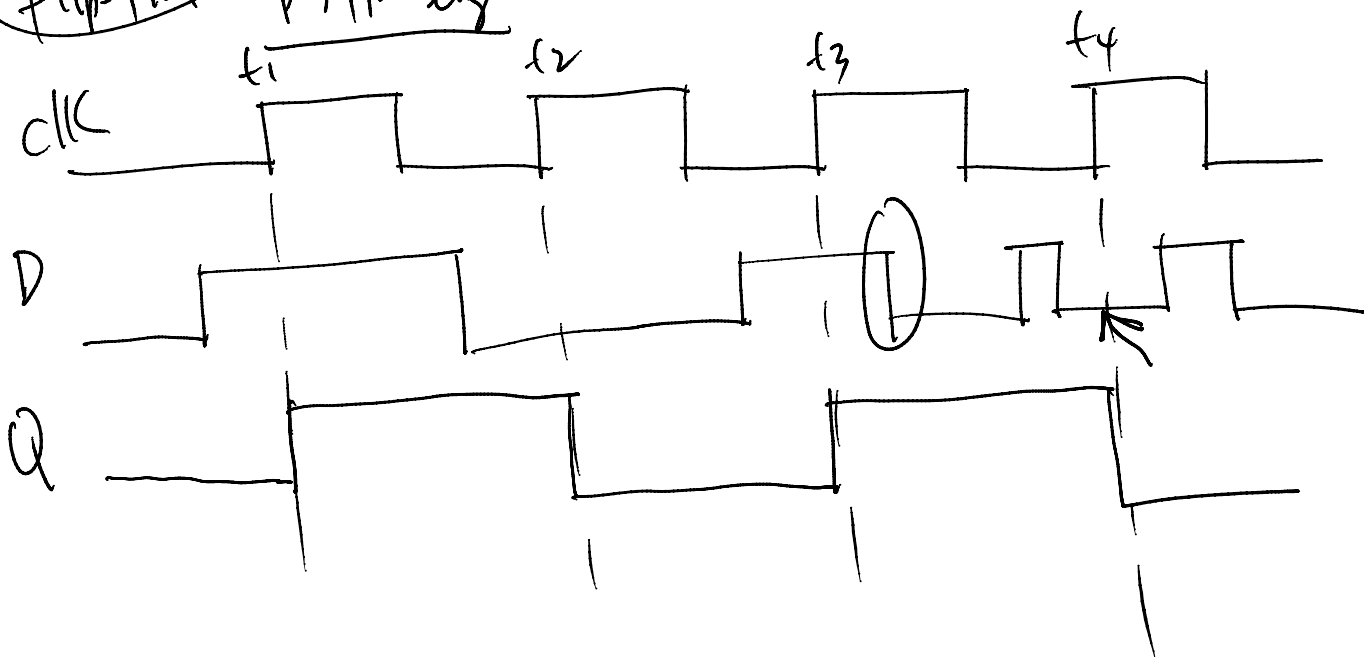


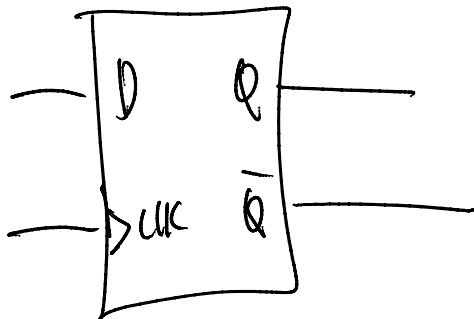
metastability

Setup time and hold time

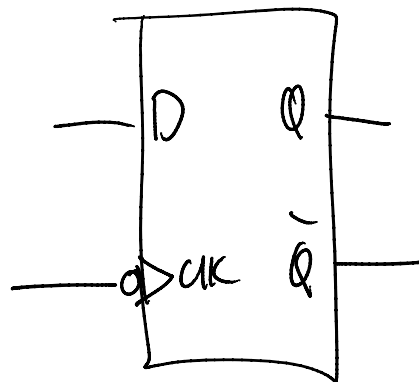


see page 344 (Figure 7.10)

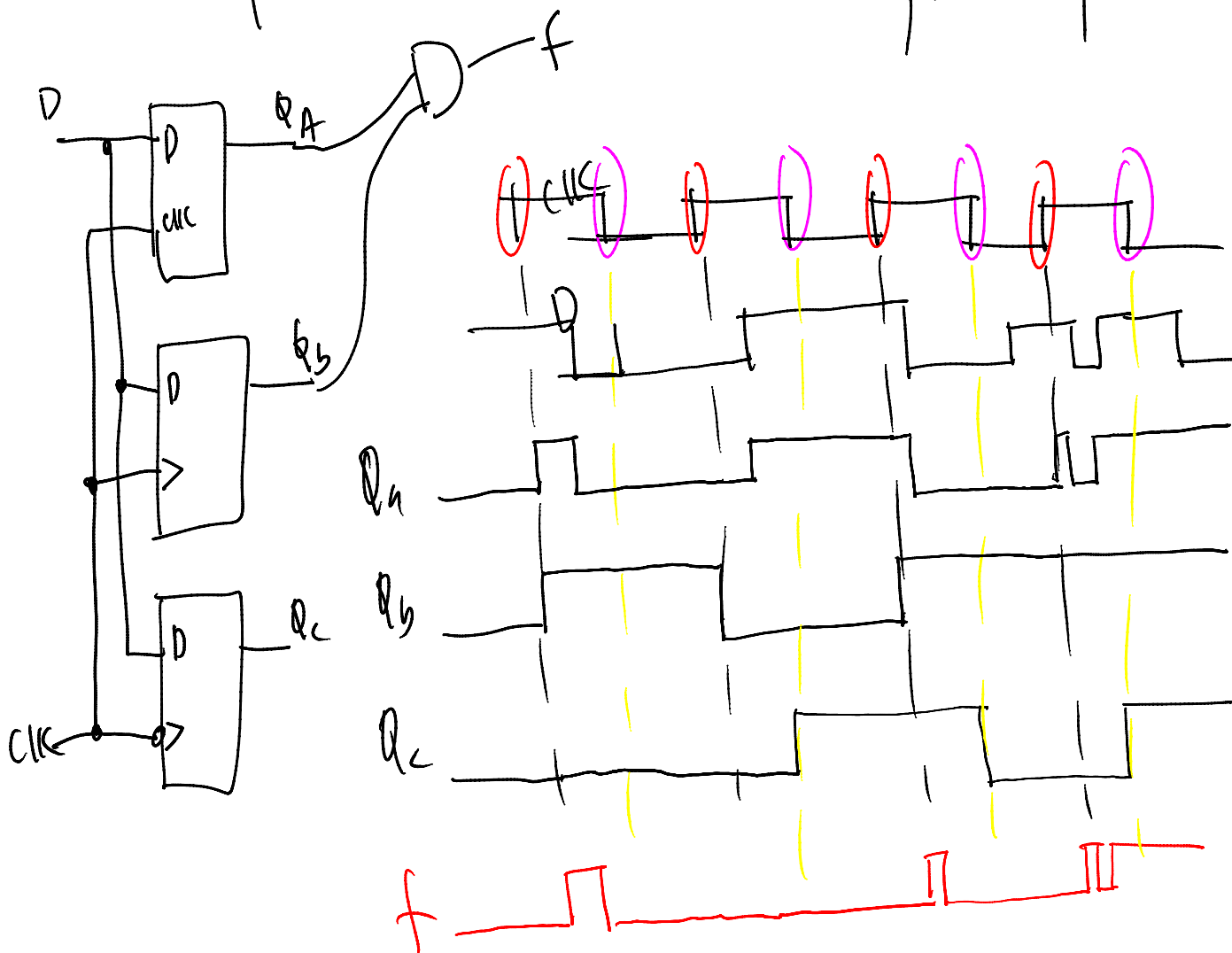
flip-flop positive-edge



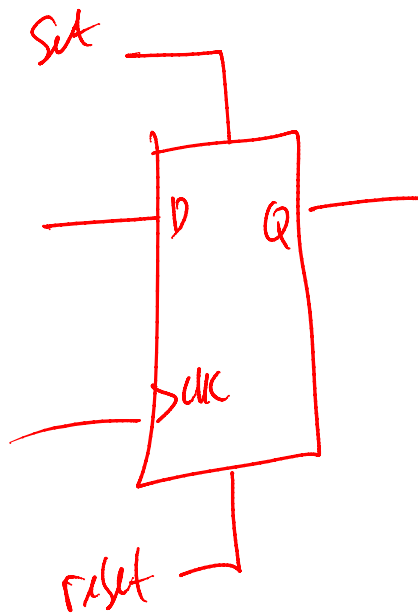
positive-edge



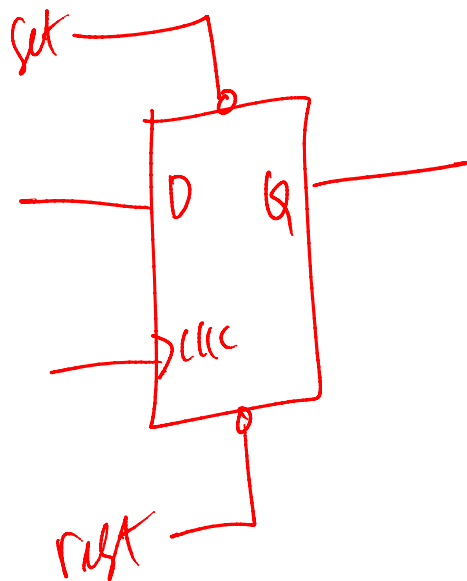
negative-edge



flip-flop with set and reset (See page 348)



active $\underbrace{\text{set} = 1}_{Q=1}$ or $\underbrace{\text{reset} = 1}_{Q=0}$



active when $\underbrace{\text{set} = 0}_{Q=1}$ or $\underbrace{\text{reset} = 0}_{Q=0}$