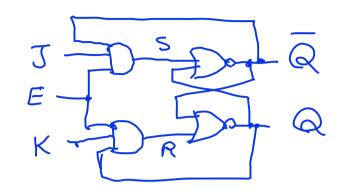
Page 1 of 7

J-K Latch

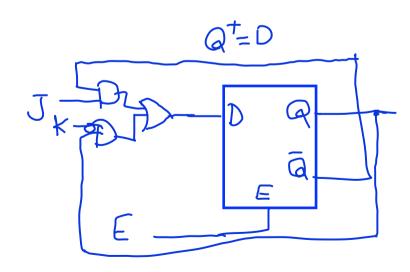
J= Jump -> set K= K:LL -> reset



$$E=0 \longrightarrow S=R=0 \Longrightarrow Q=Q$$

E=1 -> så te blee Latch

JKQ	9 1+1 Q - 3 S - 5	جد
000	O }memory characteristic To	able
001	1 smemory	
0 10	O 2 Kill (reset)	
0	O } KILL (reset)	
100] Jump (set)	
101		
110	1 à complement, toggle	
1 1 1 1	$\frac{\pi}{2} \times 10^{n+1}$	



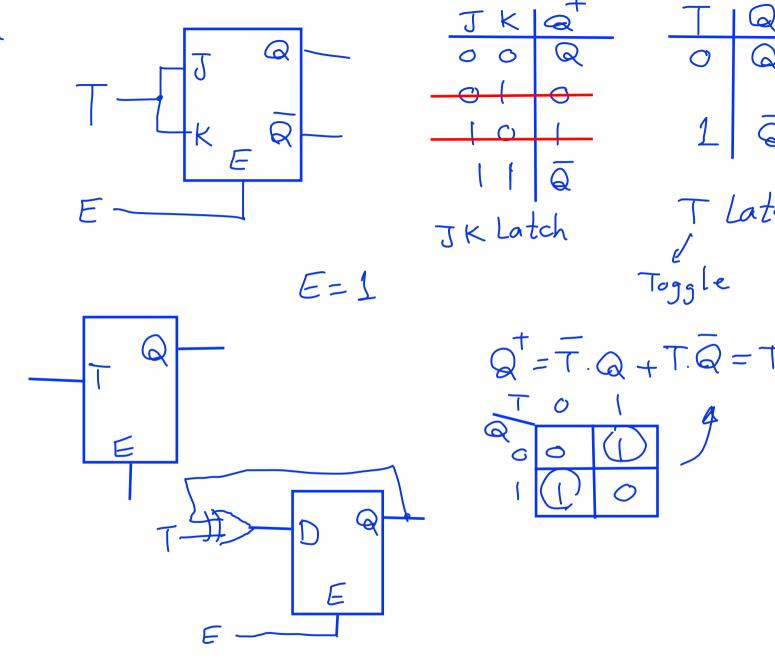
0000	Q JK	σο	01	11	10
17001		٥	0		
			0	O	

Q=Q(+1)=JQ+K1	Q
Q=Q(1+1)=JQ+K1	(9

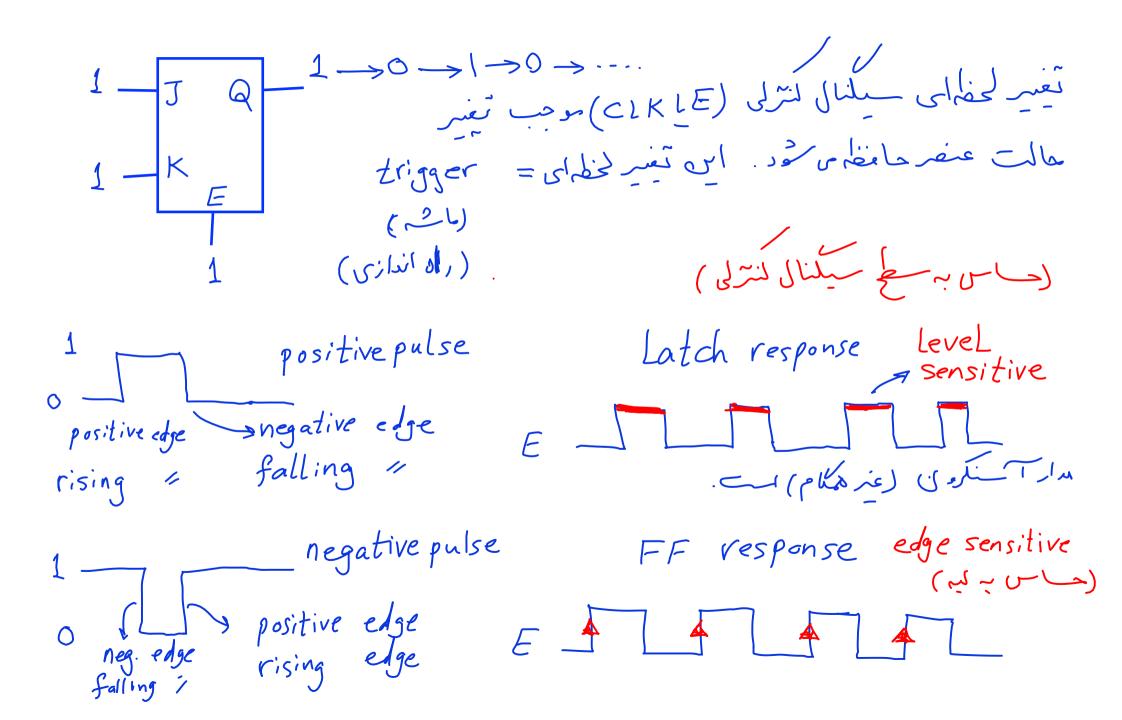
JK	Q^{n_+}
00	Qn
0	0
(0	1
1 (Qn

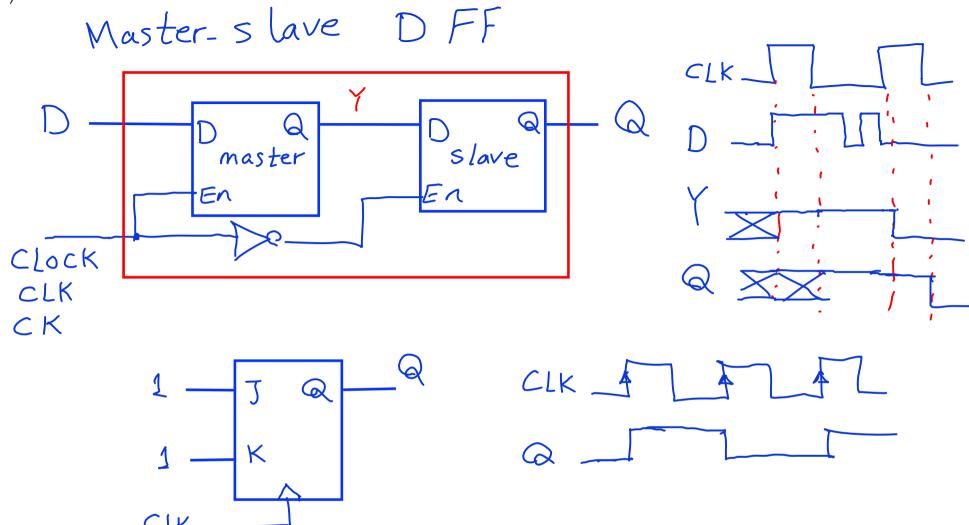
Table

Page 2 of 7
T Latch

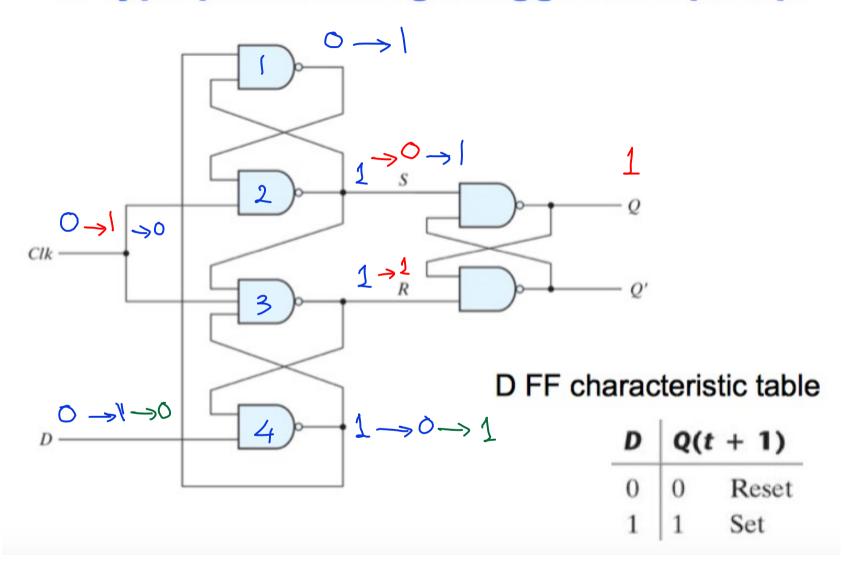


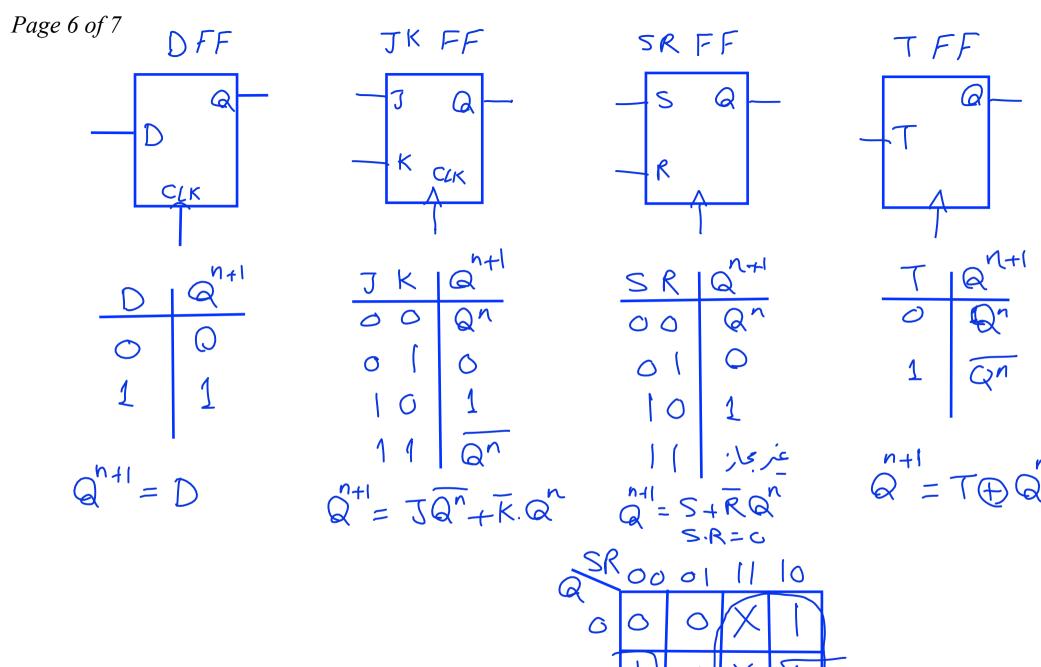
Flip-Flop





D-type positive-edge-triggered flip-flop





$$Q^{n+1} = S + \overline{R} Q^n$$
, $S \cdot R = \emptyset$

@

Page 7 of 7 - t=setup time = silil ob cili نمان میل از لیم کو شر Clock کم باس t = hold time = July is مدت زمانی که بعد از لبم مؤکر Clock باید ورودی (ها) بدون تغییر باشد.