

Practica 2 Flip-Flops

Conversion de Flip-Flop

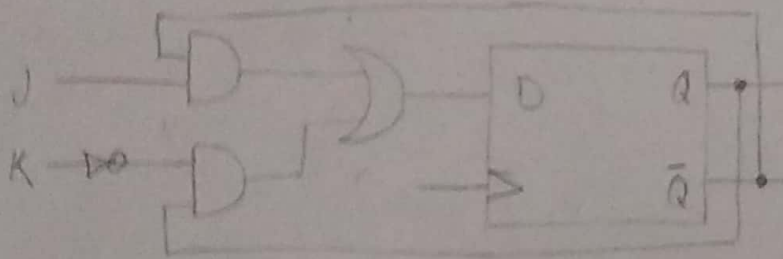
Quiero JK Tengo D

J	K	Q(t)	Q(t+1)	D
0	0	0	0	0
0	0	1	1	1
0	1	0	0	0
0	1	1	0	0
1	0	0	1	1
1	0	1	1	1
1	1	0	1	1
1	1	1	0	0

D

J\KQ	00	01	11	10
0	0	1		
1	1	1		1

$$d = \bar{K}Q + J\bar{Q}$$



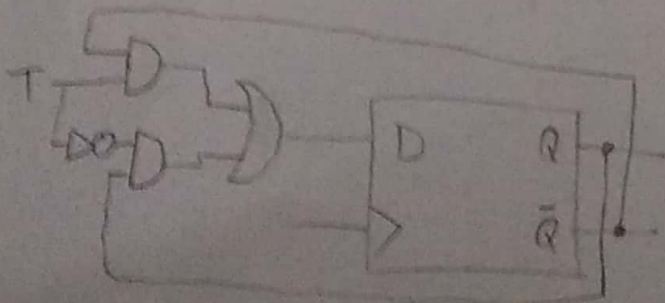
Quiero T Tengo D

T	Q(t)	Q(t+1)	D
0	0	0	0
0	1	1	1
1	0	1	1
1	1	0	0

Q(t)	Q(t+1)	D
0	0	0
0	1	1
1	0	1
1	1	0

TQ	00	01	11	10
		1		1

$$D = \bar{T}Q + T\bar{Q}$$



Quiero SR Tengo D

$$Q(t) = Q(t+1) \quad D$$

0	0	0
0	1	0
1	0	1
1	1	1

S	R	$Q(t)$	$Q(t+1)$	D
0	0	0	0	0
0	0	1	1	1
0	1	0	0	0
0	1	1	0	0
1	0	0	1	1
1	0	1	1	1
1	1	0	NV	X
1	1	1	NV	X

S/RQ	00	01	11	10
Q		1		
\bar{Q}	1	1	X	X

$$D = \bar{R}Q + S$$

