

EXAMPLE

MOD-7 Senkron sayıcı J-K Flip-Flop kullanarak tasarlayınız.

1) 0 ile 6 arasında gerçekleşir. $(6) = (110)_2$

2) $length = 3$, Then we need 3 Flip-Flops

Mevcut Durum
Sonraki Durum
set
reset

3)

CP	A	B	C	A	B	C	J _A	K _A	J _B	K _B	J _C	K _C
0	0	0	0	0	0	1	0	x	0	x	1	x
1	0	0	1	0	1	0	0	x	1	x	x	1
2	0	1	0	0	1	1	0	x	x	0	1	x
3	0	1	1	1	0	0	1	x	x	1	x	1
4	1	0	0	1	0	1	x	0	0	x	1	x
5	1	0	1	1	1	0	x	0	1	x	x	1
6	1	1	0	0	0	0	x	1	x	1	0	x

4)

A \ BC	00	01	11	10
0	1	x	x	1
1	1	x	⊗	

$$J_C = \bar{A} + \bar{B}$$

A \ BC	00	01	11	10
0	x	1	1	x
1	x	1	⊗	x

$$K_C = +V_{oc}$$

A \ BC	00	01	11	10
0	0	1	x	x
1	0	1	⊗	x

$$J_B = C$$

A \ BC	00	01	11	10
0			1	
1	x	x	⊗	x

$$J_A = BC$$

A \ BC	00	01	11	10
0	x	x	1	
1	x	x	⊗	1

$$K_B = C + A$$

A \ BC	00	01	11	10
0	x	x	x	x
1	0	0	⊗	1

$$K_A = B$$

teacher's note was assigned to

$$K_A = BC$$

SENKRON - SAYICI - ÇİİZİMİ

