(X) Sequential logic implementation USY SRFF Excitation table for SRFF.

Q(+)	Q(++1)	5(4)	R(+)	5-	Q
0	0	O	× (or hat	1) R-	<u>a</u> 6-
0	Ţ	l	0	}	4
(O	0	_		Φ
1		×	O lorhod	d) Set	beset Flip-Flip
	·	X - do	ut care	\subset .	SRFF)
Impleme	ent following) Mealy	State	machs	سو

WING SREF'S.

	Plese	ut	Next				
Tupi	ut	state	State	6 utput			
X	(+)	A:(+)	A(+++)	f(+)		S(+)	P(+)
	\bigcirc	6	0		-	0	\times
	\bigcirc	(0	O		\Diamond	1
	(0		1		1	0
				0		X	Ō
) 		/	

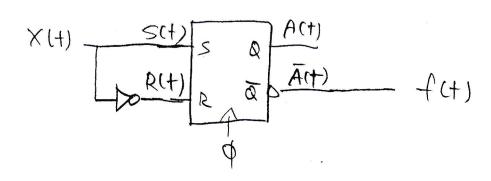
These two Columns are added for SRFF implementation.

Three K-mays are meeded for f(+), S(+) & R(+).

$$f(t) = \overline{A}(t)$$

exps in msop!

Lopic diagram



JKFF. same State machine w

Excitation table

15	9-
1/4	Q
	}

Q (+)	QC++1)	2C+) KC+	-)
0	0	0 ×	(reset or hold)
\circ)) ×	(set or flip)
	0	X	(Leset or flip)
1	(.	× 0	(set or hold)

X(+)	A(+)	A (++1)	f(t)
0	б	0	
0	1	0	0
× (0	1	
	,	(б

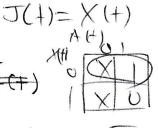
Jc+>	K(4)
0	×
×	\ \
×	6

added for JKFF implementation

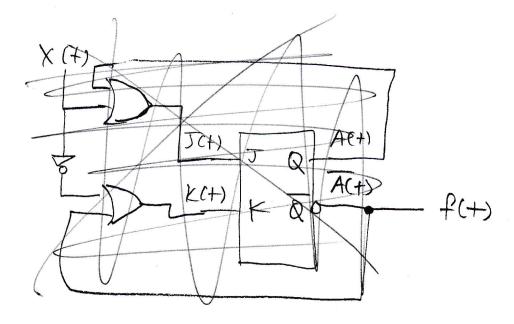
$$f(4) = \overline{A}(4)$$

J(+) x(+) 6





Logic diagram



(ex) TFF implementation of the same state machine.

Q(+)	0 (++1)	T(+)	Day
0	0	0	Excitation table.
0			Table.
	0	1	-T Q+
		0	100
	•		Φ.

X (+)	A (+)		(+ LH)	T(+)
Ö	0	0		0
0		0	0	1
	0		(. *]
	1		0	0

 $T(t) = \overline{X(t)} \cdot A(t) + X(t) \cdot \overline{A(t)}$

) manual reduction

$$=$$
 $\chi(+)\Phi(+)$

