





Example 2: Sta	ate Ass	ignmer	nt & J/I	K Implementati	on
"(2) The fo using J-K next-state	ollowing flip-flop entries	state ta s and lo is (next-	ble is to ogic gate state,ou	be implemented es (format of utput))."	
	Prese	nt			
	input	input			
	State	x=0	x=1		
	а	a,0	e,0		
	b	c,0	b,1		
	С	a,0	f,0		
	d	c,0	b,1		
	е	f,0	e,0		
	f	a,0	f,0		
CS150 Newton/Pister					8.2.4







		Qn = 0		Q n = 1		Rules for forming input map from next-state map (2)		
Туре	elnput	Qn+1=0	Qn+1=1	Qn+1=0	Qn+1 =1	Qn =0 half	Qn=1 half	
D	D	0	1	0	1	no change	no change	
Т	EN	0	1	1	0	no change	complement	
S-R	s	0	1	0	*	no change	replace 1s with *	
	R	*	0	1	0	replace 0s with *s	complement	
J-K	J	0	1	*	*	no change	fill in with *s	
	к	*	*	1	0	fill in with *s	complement	
) (1 (2	Note) * = " 2) Alwa 3) For	s: 'don't c ays co S. Qn=	are" by *s fr 1 half a	om nex	t-state 2n=0 h	map to input ma alf, fill remaining	p first entries with	









