

Giveno	55 0	1	7	State assignments
	AB	D	0	A=00 B=01
	BC	BA	0	19-01
	DB	C	0	$C = \{1\}$
	5*			0 = 10

Find: Synthesize a state machine w/ given information. Use 2 state variables, Q, Qz. Write but the excitation equations 3 draw schematic using NAND gates and DFFs.

solution:					
	>	Cinpu	(7)		
5	0.	1	Z (output)		
00	01	16	0		
01	11	01	0		
11	01	00			
10	01	. 11	0		
	5	*			

QZQ* Q2 Q1 X.

State table

Z

-

*Based on this State table, we have a Moore machine

excitation equations

Q2	×			
Q2	00	01	-	10
O	01	1	0	0
· · ·	0	(1)	0	0
ative.	Total Control of the Assessment of the State			

$$Q_2^* = \overline{Q_1} \times + \overline{Q_2} \overline{Q_1} \times$$

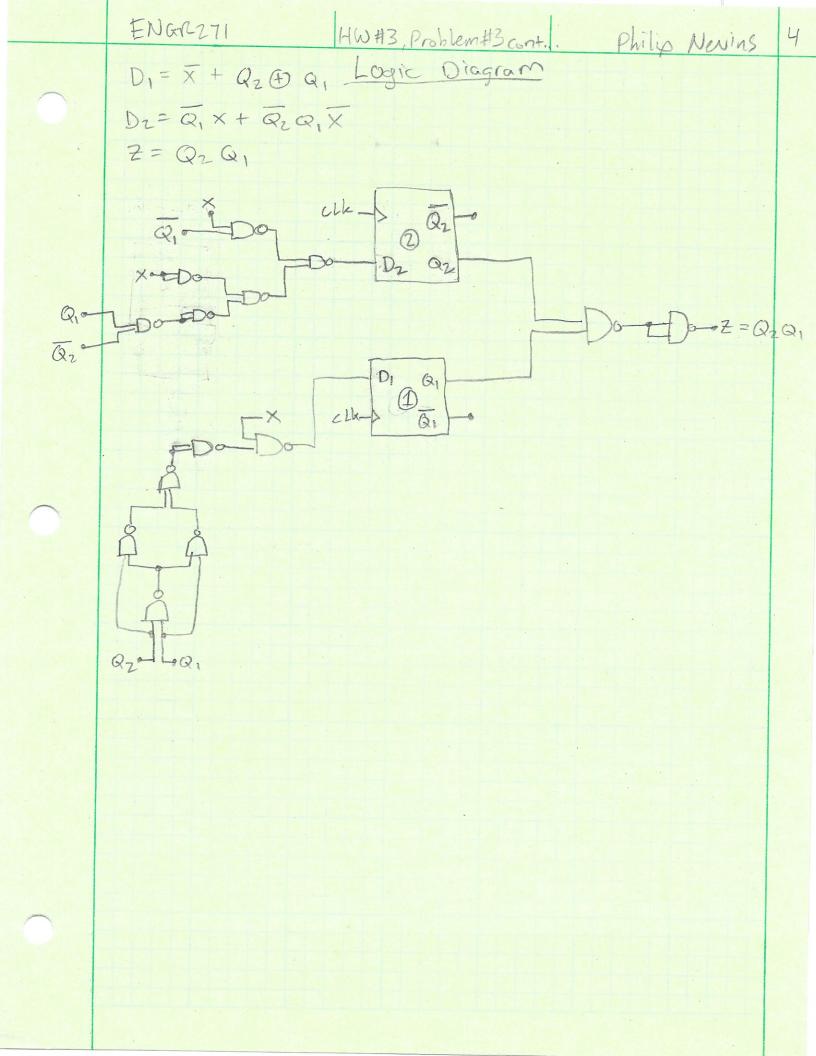
Q, T				
6,6	X	01	11	10
02	7	0	(1)	1001
a second		D	0	

$$Q_1^{\dagger} = \overline{X} + \overline{Q_2}Q_1 + \overline{Q_2}Q_1$$

 $Q_1^{\dagger} = \overline{X} + \overline{Q_2}Q_1Q_1$

$$Z = Q_Z Q_1$$

Schematic

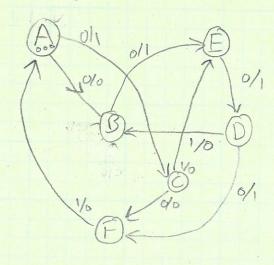


		1	AND THE PROPERTY OF THE PARTY O	and the same of	
G	iven:		YY		-
	Lotate	00	101	11	10
	A	B	C		A
	B	. B	E		B
	C	F	C	-	E
	P	D	-	gride/fraggriga-	B
	E	D	E		E
	E	F	F		A
		The second named in column 2 is not the second named in column 2 i	and the second supplied to the second	and has the property of the last the second property of the second p	RESTOREGUES AND CONTRACTOR AND CONTRACTOR

Find: Assign state variables, [abits] that avoid critical signal vacing. Can add more states, but need to use minimum it abits. Assign all Ds to State A. Draw an adjacency diagram for original flow table & write medified flow table & another adjacency diagram to support final state mariable assignment

solution ?

Tinput/output



Modified State table

Present State		state but x=1	0 utpo x = 0 y1(x=0)	$\times = 1$ $Y_2(X=1)$
ABCOBF	B, C EUFD	FBA	0,1.	00000

