

# Digital Design

2019-11-05

r	g	b	a	a'	rb'g'	a(rb'g)'	arb'g'
0	0	0	0	1	0	0	0
0	0	1	1	0	0	1	0
0	1	0	1	0	0	1	0
0	1	1	1	0	0	1	0
1	0	0	1	0	1	0	1
1	0	1	1	0	0	1	0
1	1	0	1	0	0	1	0
1	1	1	1	0	0	1	0

START

Wait

RED1

①  
examine the transition from state "Start" to "Red1" p38 of Vahrd ch3 Notes

You are in state Green, show transition out of state

rgb	a	a'	rb'g'	a(rb'g)'	arb'g'
SAME as Above!					

Transition back to state Green

Transition to wait

Transition to Red2

# Digital Design

2015-11-05

(2)

Examine the truth table on p43 for the valid Ch3 notes. Show the K-maps for outputs X, n0, and n1

X

SI	50	b01	11	10
0	0	0	1	1
1	1	1	1	1

$X = 50 + 51$

n1

SI	50	b01	11	10
0	0	0	1	1
1	1	1	0	0

$n1 = 5150' + 51'50$

n0

SI	50	b01	11	10
0	0	1	0	0
1	1	1	0	0

$n0 = 5150' + 50'b$