Welcome to my Presentation

Presentation on Digital Logic Design

Presented By:

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Outline

- *Question
- $\star F_1$ And F_2 Determine
- $*F_1'$ And F_2' Determine
- PLA Program Table
- Logic Diagram

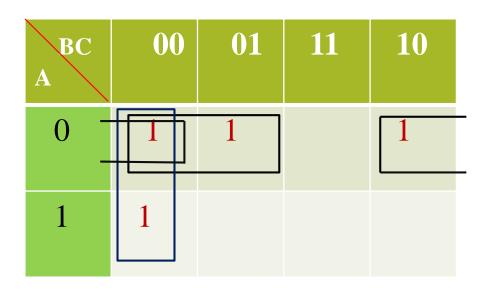
My Question is 5

Implementation of a circuit with a PLA having three inputs, four products terms and two outputs for the following functions:

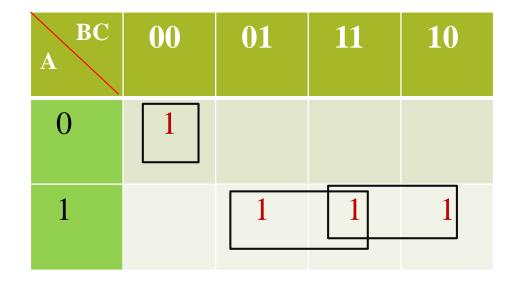
$$F_1 = \sum (0,1,2,4)$$

$$F_2 = \sum (0,5,6,7)$$

F_1 and F_2 Determination



$$F_1=A'B'+A'C'+B'C'$$

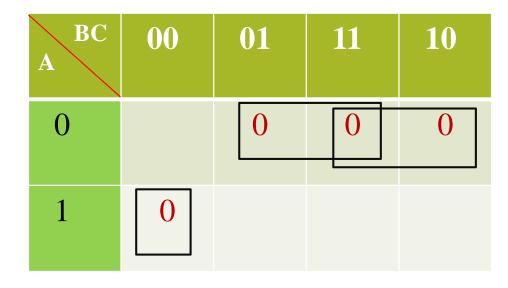


$$F_2 = A'B'C' + AC + BC$$

F_1' and F_2' Determination

BC A	00	01	11	10
0			0	
1		0	0	0

$$F_1' = (AB + AC + BC)$$
$$F_1 = (AB + AC + BC)'$$



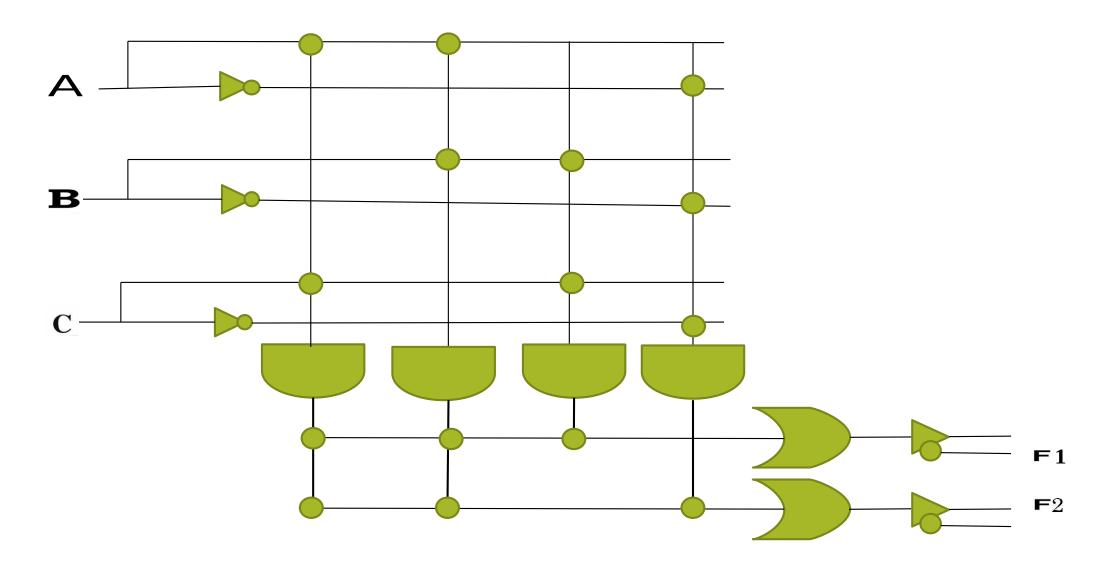
$$F_2' = (AB'C' + A'C + A'B)$$

 $F_2 = (AB'C' + A'C + A'B)'$

PLA Program Table

Product Terms	INPUT			OUTPUT		
	Α	В	С	F_1	F_2	
AB	1	1	-	1	1	
AC	1	-	1	1	1	
BC	-	1	1	1	-	
A'B'C'	0	0	0	0	1	
				С	Т	

Logic Diagram



Thank How