

Intro. to Logic Design.

2318 E4B

Digital Design - Morris Mano

6. ve 11. haftalarda ders saatlerinde vize (%25 x 2)

5 Homework (%2 x 5) \Rightarrow Xilinx.com ISE

Final ortak %40

Yoklamı Yok

$$F(A, B, C) = \sum m(0, 1, 2, 4, 7)$$

$m_0 \quad m_1 \quad m_2 \quad m_4 \quad m_7$

$2^3 = 8$ cells

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

Red circles and arrows indicate minterms: I (001), II (011), III (101), IV (111).

$$F = I + II + III + IV$$

$$\bar{B}\bar{C} + \bar{A}\bar{B} + ABC + \bar{A}\bar{C}$$

$$F(A, B, C, D) = \prod M(0, 2, 6, 7, 8, 10, 12, 13)$$

CD \ AB	00	01	11	10
00	0			0
01		0	0	
11	0	0		
10	0			0

Red circles and arrows indicate maxterms: I (000), II (010), III (100), IV (110).

$$\bar{F} = I + II + III + IV$$

$$= \bar{B}\bar{D} + \bar{A}B\bar{C} + A\bar{B}\bar{C}$$

$$F = (B + D)(A + \bar{B} + \bar{C})(\bar{A} + \bar{B} + C)$$