

SL

22-09-2011

	A	B	C	F
0	0	0	0	0
1	0	0	1	0
2	0	1	0	0
3	0	1	1	0
4	1	0	0	0
5	1	0	1	0
6	1	1	0	1
7	1	1	1	1

C \ AB	00	01	11	10
0	0	2	6	4
1	1	3	7	5

→ AB

C \ AB	00	01	11	10
0	0	2	6	4
1	1	3	7	5

→ A, → B

A	B	C	D	F
---	---	---	---	---

D \ BC	00	01	11	10
0	1	5	13	9
1	3	7	15	11

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

D \ BC	00	01	11	10
0	1	5	13	9
1	3	7	15	11

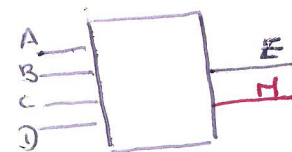
→ $\bar{A}\bar{C}\bar{D} + B\bar{C}\bar{D} + ABD + ACD$

D \ BC	00	01	11	10
0	1	5	13	9
1	3	7	15	11

→ $\bar{B}\bar{D} + BD$

A	B	C	D	E	M	$\bar{B}\bar{C}\bar{D}$	A BD	ACD
0	0	0	0	0	0			
1	0	0	1	0	0			
2	0	0	1	0	0			
3	0	0	1	1	X			
4	0	1	0	0	0			
5	0	1	0	1	X			
6	0	1	1	0	X			
7	0	1	1	1	0			
8	1	0	0	0	0			
9	1	0	0	1	X			
10	1	0	1	0	X			
11	1	0	1	1	0			
12	1	1	0	0	X			1
13	1	1	0	1	0			
14	1	1	1	0	0			
15	1	1	1	1	0			

$$E = \sum(3, 5, 6, 9, 10, 12) \\ = \prod(0, 1, 2, 4, 7, 8, 11, 13, 14, 15)$$



$$M = \sum(7, 11, 13, 14, 15) + \phi(3, 5, 6, 9, 10, 12) \\ = \prod(0, 1, 2, 4, 8) + \phi(3, 5, 6, 9, 10, 12)$$

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

→ $\bar{C}\bar{D}$