Sistemas Digitais

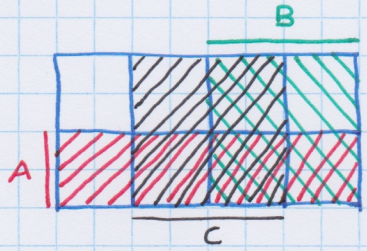
26/09/2018 - T

Mapa de Karnaugh

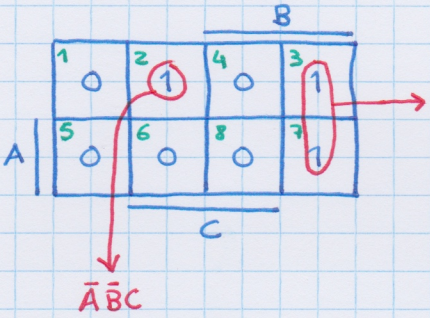
$F(A,B,C) = (A+B+C).(A+\bar{B}+\bar{C}).(\bar{A}+B+C).(\bar{A}+B+\bar{C}).(\bar{A}+\bar{B}+\bar{C})$

0 0 0 | 0 1 1 | 1 0 0 | 1 0 1 | 1 1 1

A	B	C	F	
0	0	0	0	1
0	0	1	1	2
0	1	0	1	3
0	1	1	0	4
1	0	0	0	5
1	0	1	0	6
1	1	0	1	7
1	1	1	0	8



Mapa de 3 variáveis



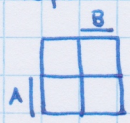
$B.\bar{C}$

Está totalmente fora de C e totalmente dentro de B. Como está metade dentro e metade fora de A, não se coloca esta variável.

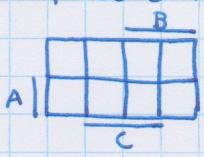
$\bar{A}\bar{B}C$

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

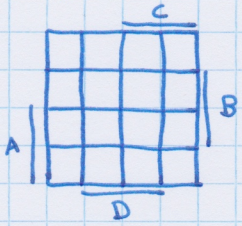
Mapa de 2 variáveis:



Mapa de 3 variáveis:



Mapa de 4 variáveis:



Mapa de 5 variáveis: