2024

Propuesta Temática del Proyecto Integrador



Tema:

02_Actuación en clase: Circuitos combinacionales

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Carrera: Tecnología Superior en Desarrollo de Software

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Ejercicios de simplificación de funciones lógicas

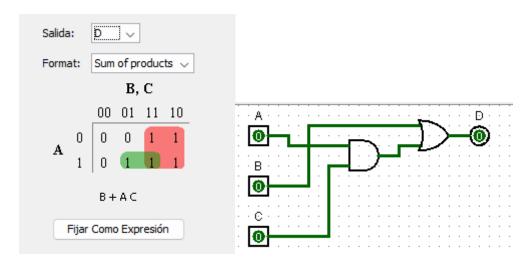
Resolver:

AB + A(B+C) + B(B+C)

AB+AC+B+BC

AB+AC+B

B+AC

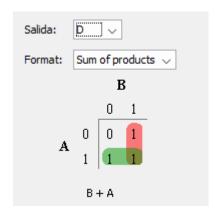


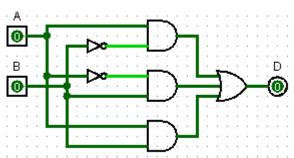
AB'+A'B+AB

 $A \sim B + B(\sim A + A)$

A~B+B

A+B

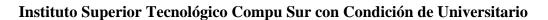




AB'+ABC+AB'C+AB

 $A \sim B + AB(C + C') + AB$

A~B+AB+AB

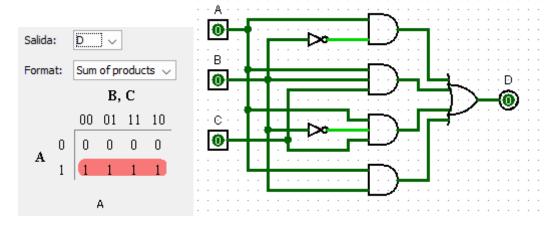




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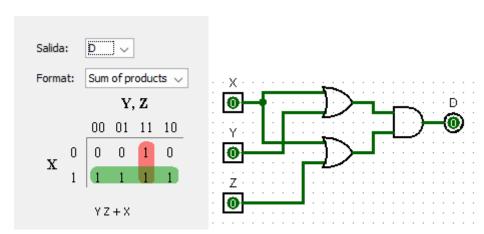
A+AB

Α



(X+Y)(X+Z)

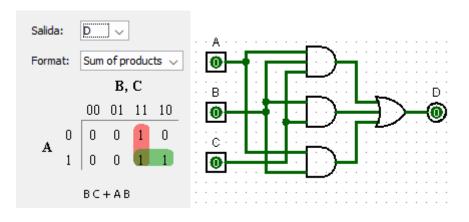
YZ+X



$$(A \cdot B \cdot C) + (B \cdot C) + (A \cdot B)$$

B(AC+C)+(AB)

BC+AB





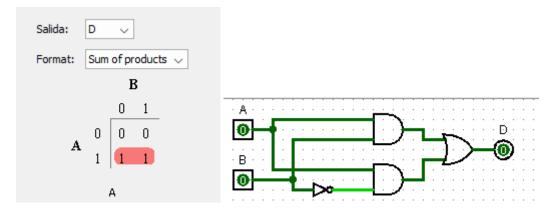
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AB+AB'=A

Α



(A+B) *(A+B')

AA+A ~B+BA+B ~B

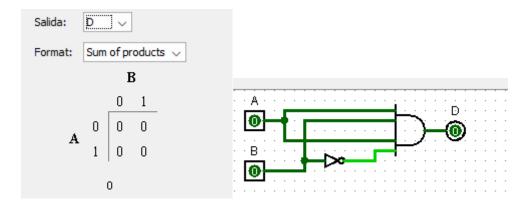
A+A~B+BA+B~B

A+A~B+BA+0

A(B+~B)

A(1)

0





(AB+C)(A+BC)

~((AB+C)(A+BC))

~(ABA+ABBC+CA+CBC)

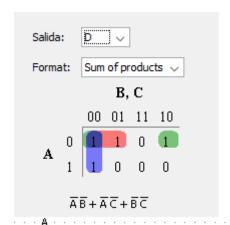
~(AB+ABC+CA+CB)

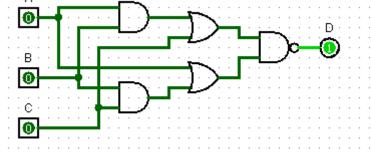
 $^{\sim}(A(B+BC)+CA+CB))$

~(A+CA+CB)

~ (A+CB)

~A

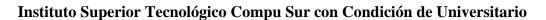




(W+WX'+YZ)'

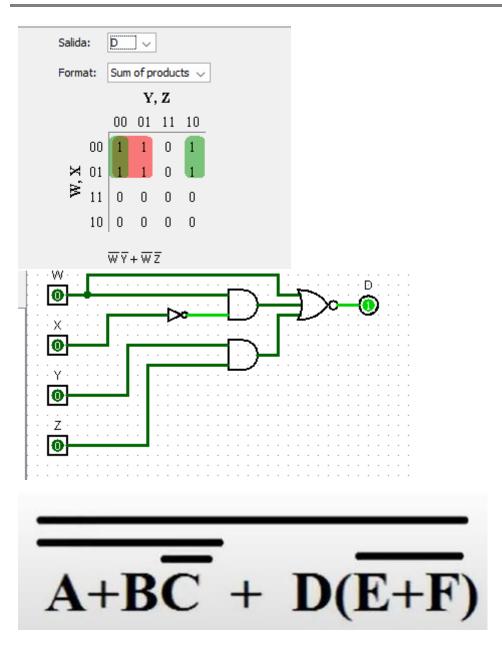
~ (W+W~X+YZ)

~W~Y+~W~Z





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 $B \sim C \sim D + B \sim CF + B \sim C + A \sim D + AF + AE$



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