

Riesgos Temporizados

Prof. Luis Araujo

Sistemas Digitales

<http://www.ing.ula.ve/~araujol>

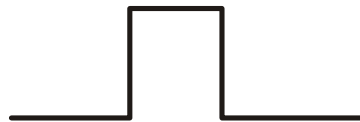
Riesgos

- Riesgo: comportamiento transitorio que produce en la salida una falla(espiga) cuando al análisis del circuito estacionario predice que la salida no debe cambiar.

- Tipos:

- Estáticos

- Tipo 0:



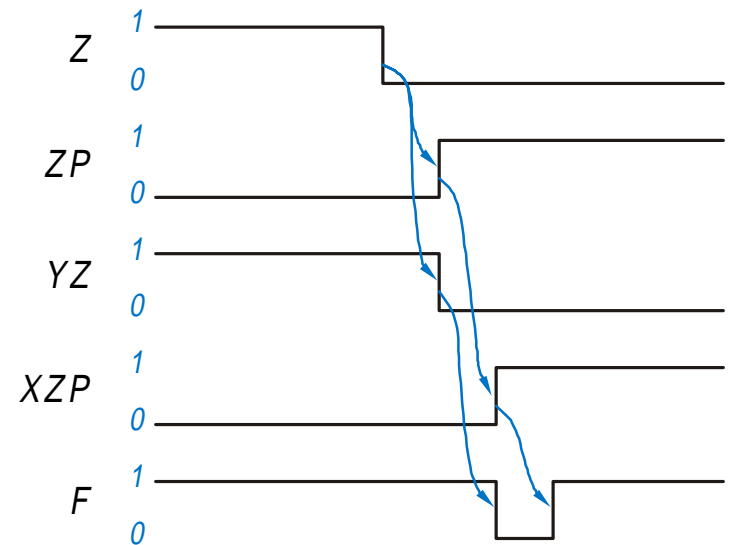
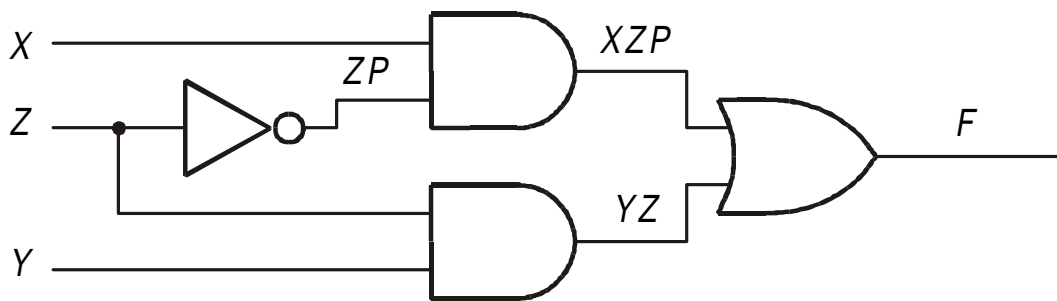
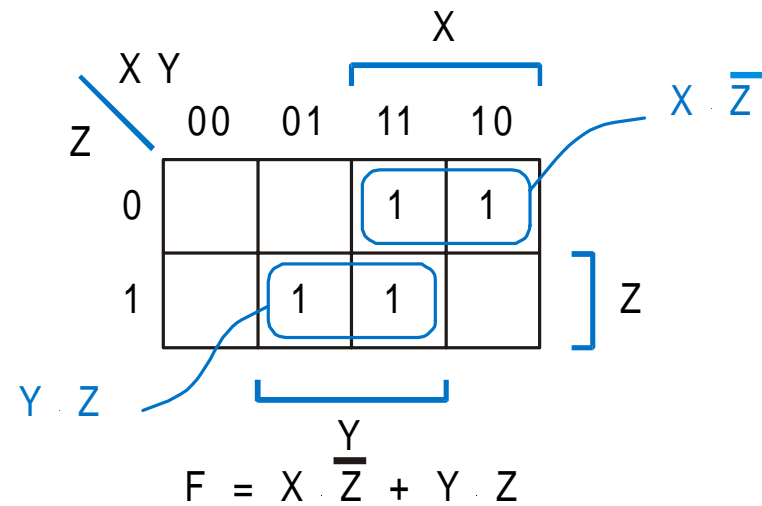
- Tipo 1:



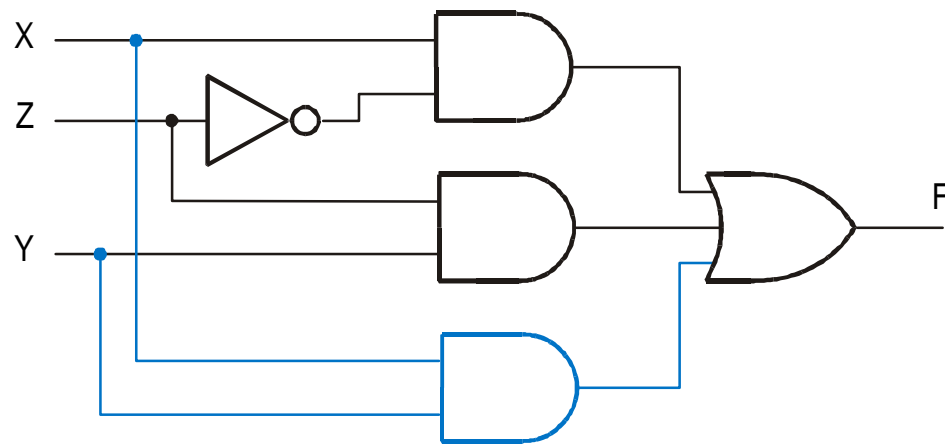
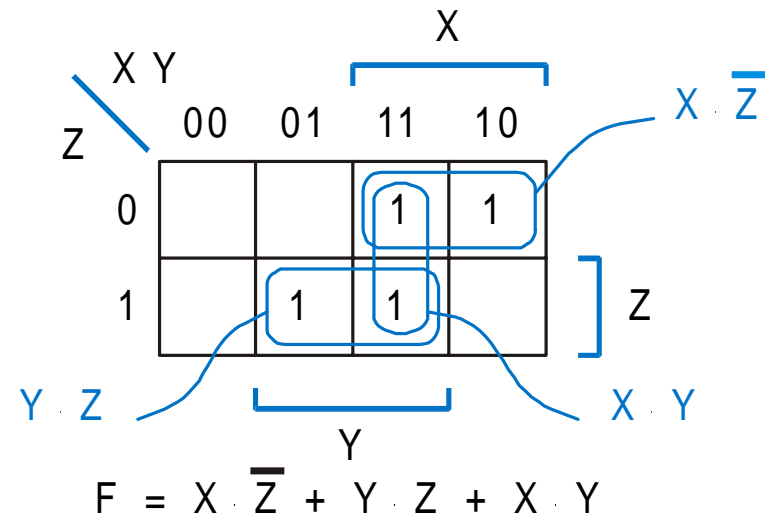
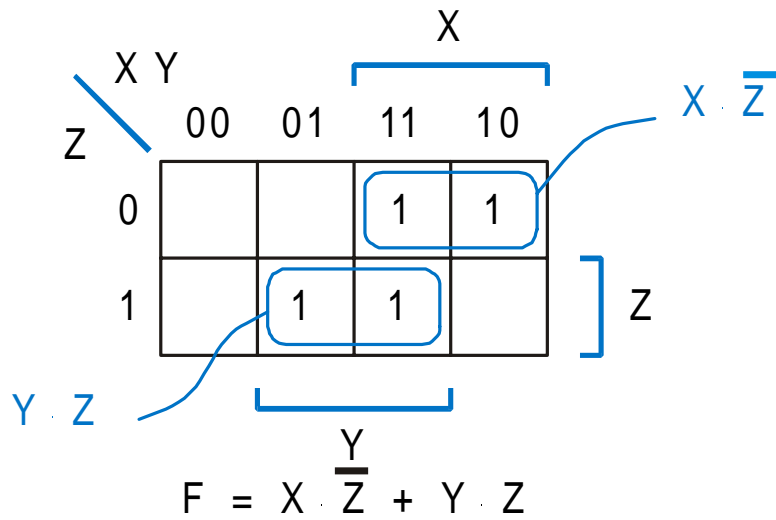
- Dinámicos



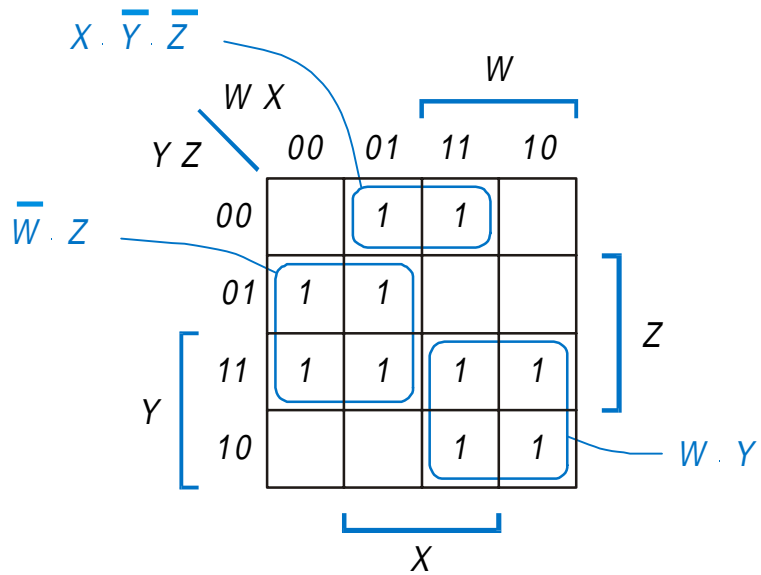
Riesgos



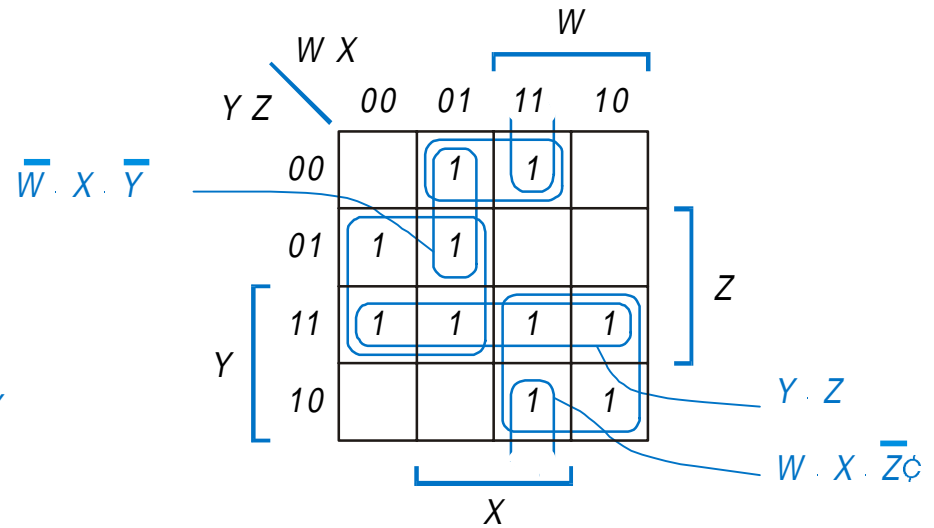
Riesgos



Riesgos

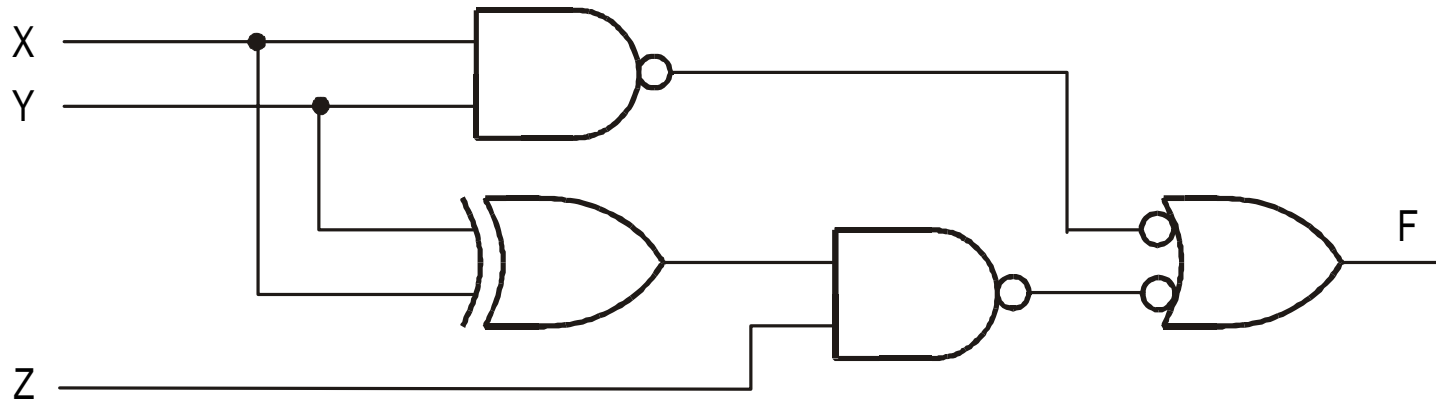


$$F = X \cdot \bar{Y} \cdot \bar{Z} + \bar{W} \cdot Z + W \cdot Y$$



$$F = X \cdot \bar{Y} \cdot \bar{Z} + \bar{W} \cdot Z + W \cdot Y + \bar{W} \cdot X \cdot \bar{Y} + Y \cdot Z + W \cdot X \cdot \bar{Z}$$

Riesgos

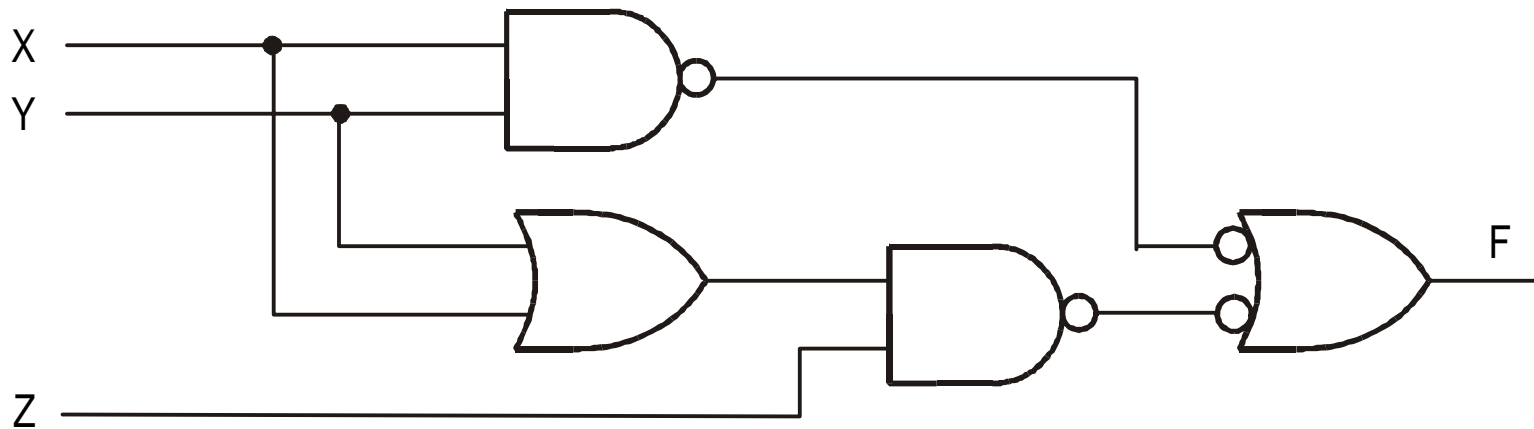
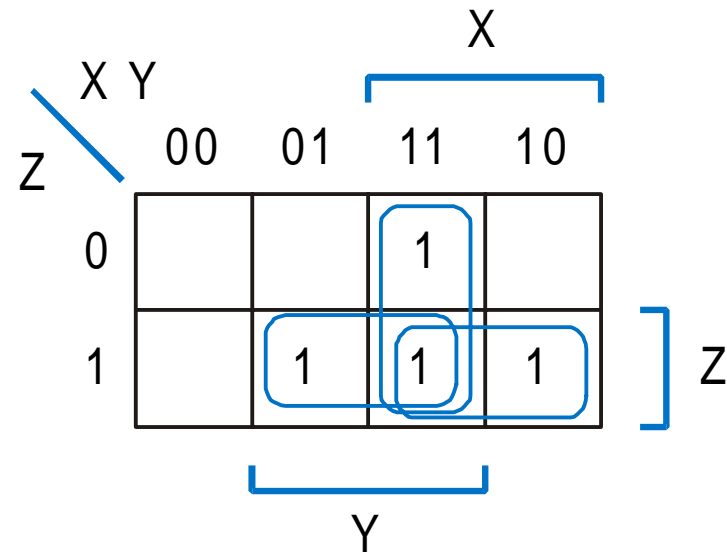


		X			
		00	01	11	10
Z	0			1	
	1		1	1	1

Blue brackets highlight the following groups of cells in the truth table:

- A bracket above the columns for X = 11 and X = 10.
- A bracket below the columns for Y = 01 and Y = 11.
- A bracket to the right of the rows for Z = 0 and Z = 1.

Riesgos



Riesgos

