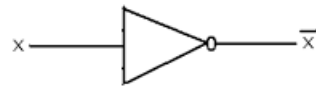


Basics in Logic gates

What is a logic gate?

A logic gate is an elementary building block of a digital circuit which perform functions with low(0) or high(1) binary conditions.

NOT Gate



Logic Circuit of NOT Gate

Performs logical complementarity

AND Gate



$$Y = A \cdot B$$

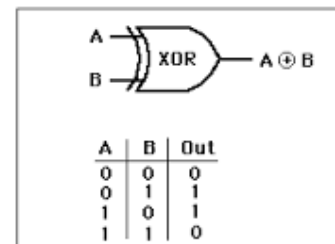
Performs logical multiplication

OR Gate

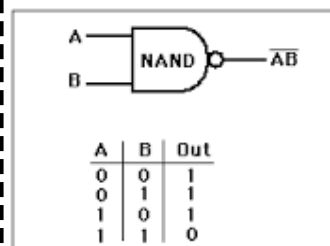
Performs logical addition



Exclusive OR Gate or XOR Gate

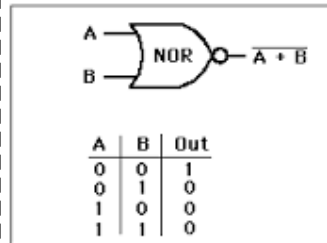


NAND Gate



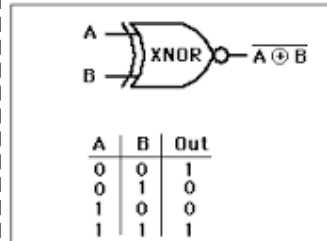
performs NOT and AND operations.

NOR Gate



Performs NOT and OR operations.

XNOR gate



Performs XOR and Not Operations.