

Exclusive OR Gate

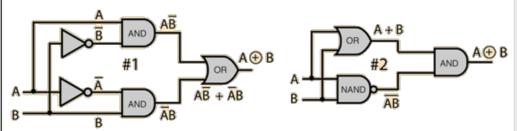
Logically, the exclusive OR (XOR) operation can be seen as either of the following operations:

1. $A \oplus B = A\overline{B} + B\overline{A}$ A AND NOT B OR B AND NOT A

2. $A \oplus B = (A + B)(\overline{AB})$

A OR B AND NOT A AND B

which can be implemented by the gate arrangements shown. They can also be implemented using NAND gates only.



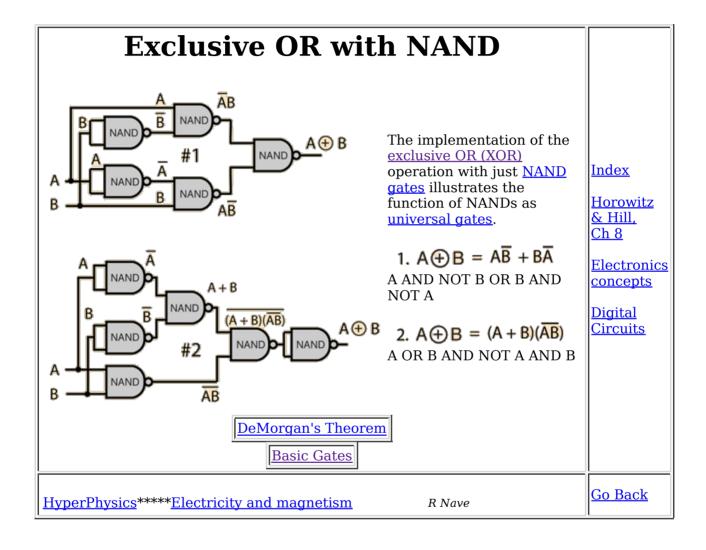
Index Reference:

Horowitz & Hill, Sec 8-12

Electronics concepts

Digital Circuits

	Basic Gates		
<u>F</u>	HyperPhysics*****Electricity and magnetism	R Nave	Go Back



IC 7486 Exclusive-OR

This is an example of convenient packaging of XOR gates in

Index
Electronics
concepts

