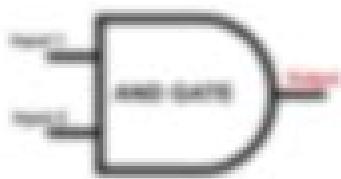


AND gate

- ❖ Symbol:



- ❖ Function:

It is a basic digital logic gate that implements logical conjunction (AND) behavior according to the truth table to the right. A HIGH output (1) results only if all the inputs to the AND gate are HIGH (1). If one or more inputs to the AND gate are HIGH, other output results. The function can be extended to any number of inputs.

- ❖ Truth Table:

Input AND gate		Output
A	B	
0	0	0
0	1	0
1	0	0
1	1	1

OR gate

- ❖ Symbol:



- ❖ Function:

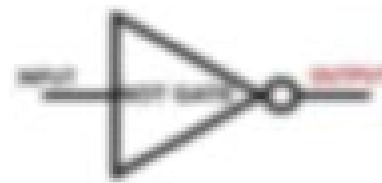
This is a digital logic gate that implements logical disjunction (OR) behavior according to the truth table to the right. A HIGH output (1) results if one or both the inputs to the gate are HIGH (1). If neither input is high, a LOW output (0) results.

- ❖ Truth Table:

Input OR gate		Output
A	B	
0	0	0
0	1	1
1	0	1
1	1	1

NOT gate

- ❖ Symbol:



- ❖ Function:

Often called an inverter, it is one digital logic gate to invert with because it has only a single input and output behavior. A NOT gate performs logical negation on its input. In other words, if the input is true, then the output will be false. Similarly, a false input results in a true output.

- ❖ Truth Table:

NOT gate		Output
A	A	
0	1	
1	0	

Solution Manual Switching Theory And Logic Gates

M. Morris Mano

Solution Manual Switching Theory And Logic Gates:

Solutions Manual to Accompany Digital Logic Testing and Simulation Alexander Miczo,1986 Fundamentals of Logic Design and Switching Theory Arthur D. Friedman,1986 *An Introduction To Systems Science* John N Warfield,2006-04-19

This is the first book that renders a thorough discussion of systems science It draws on material from an extensive collection of external sources including several other books and a special library collection complete with videotape empirical evidence of applicability of the theory to a wide variety of circumstances This is essential because systems science must be responsive to diverse human situations of the widest difficulty and it must fill the void that the specific sciences cannot fill because these sciences are insensitive to the necessities of reconciling disparate views of multiple observers and incorporating local conditions in hypotheses that precede inductive explorations **Theory & Design of Switching Circuits** Arthur D. Friedman,Premachandran R. Menon,1975 1 ex uitleenbaar 1 ex niet uitleenbaar *Digital Logic Design* B. Holdsworth,2014-05-12 Digital Logic Design Second Edition provides a basic understanding of digital logic design with emphasis on the two alternative methods of design available to the digital engineer This book describes the digital design techniques which have become increasingly important Organized into 14 chapters this edition begins with an overview of the essential laws of Boolean algebra K map plotting techniques as well as the simplification of Boolean functions This text then presents the properties and develops the characteristic equations of a number of various types of flip flop Other chapters consider the design of synchronous and asynchronous counters using either discrete flip flops or shift registers This book discusses as well the design and implementation of event driven logic circuits using the NAND sequential equation The final chapter deals with simple coding techniques and the principles of error detection and correction This book is a valuable resource for undergraduate students digital engineers and scientists

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