

Figure. 01

Basic Logic Gates with Truth Table

YES Gate

Symbol: 

Boolean Expression: $Y = A$

Truth Table:

INPUT		OUTPUT (Y)
A		
0		0
1		1

NOT Gate

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$$Y = A'$$

INPUT		OUTPUT (Y)
A		
0		1
1		0

AND Gate



$$Y = A \cdot B$$

INPUT		OUTPUT (Y)
A	B	
0	0	0
0	1	0
1	0	0
1	1	1

INPUT		OUTPUT (Y)
A	B	
0	0	1
0	1	1
1	0	1
1	1	0

NAND Gate



$$Y = \overline{A \cdot B}$$

OR Gate



$$Y = A + B$$

INPUT		OUTPUT (Y)
A	B	
0	0	0
0	1	1
1	0	1
1	1	1

NOR Gate



$$Y = \overline{A + B}$$

INPUT		OUTPUT (Y)
A	B	
0	0	1
0	1	0
1	0	0
1	1	0

XOR Gate



$$Y = A \oplus B$$

INPUT		OUTPUT (Y)
A	B	
0	0	0
0	1	1
1	0	1
1	1	0

INPUT		OUTPUT (Y)
A	B	
0	0	1
0	1	0
1	0	0
1	1	1

XNOR Gate



$$Y = \overline{A \oplus B}$$

Logic Design Study Guide

Jessica J Manson



Logic Design Study Guide:

Logic Design Study Guide Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Logic Design Study Guide**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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