

Logic Gates – Realisation of OR, AND & NOT

Logic Gates Using Diodes and Transistor

Aim: To construct OR, AND & NOT logic gates using diodes and transistor and to verify its truth table.

Components: 1N4001 diodes, BC107 transistor, Resistors (100 Ω , 270 Ω , 2.2k Ω), LED, Breadboard, Connection wires, 5V DC supply.

Theory:

Logic gates are the basic building blocks of any digital system. A logic gate is an electronic circuit which execute a logical operation (Boolean function) on one or more binary inputs and giving a single binary output. Electronic switches such as diodes or transistors are generally used to realise logic gates. Voltages 0V and 5V, representing logic 0 and logic 1, are generally used to drive the inputs of the logic gates, and also the same (one at a time) is obtained from its output. Input and output of a logic gate is connected through certain logical relations and based on that logic gates are called AND, OR, NOT gate etc. A pair of pn junction diodes can be used to realise two-input OR & AND gates whereas a transistor can be used to construct a NOT gate.

a) OR Gate

An OR gate can have one or more inputs, but have single output. Output of an OR gate is high (or 1) if at least one of the inputs are high. In other words, unless all inputs are low (or 0), output of an OR gate is always 1. A plus sign (+) is used to indicate the OR operation. Symbol and truth table of an OR gate is given below.



$$Y = A + B$$

Inputs		Output
A	B	Y
0	0	0
0	1	1
1	0	1
1	1	1

Lab Manual For Logic Gates

IM Harris



Lab Manual For Logic Gates:

The book delves into Lab Manual For Logic Gates. Lab Manual For Logic Gates is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Lab Manual For Logic Gates, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Lab Manual For Logic Gates
 - Chapter 2: Essential Elements of Lab Manual For Logic Gates
 - Chapter 3: Lab Manual For Logic Gates in Everyday Life
 - Chapter 4: Lab Manual For Logic Gates in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, this book will provide an overview of Lab Manual For Logic Gates. This chapter will explore what Lab Manual For Logic Gates is, why Lab Manual For Logic Gates is vital, and how to effectively learn about Lab Manual For Logic Gates.
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5. In chapter 4, the author will scrutinize the relevance of Lab Manual For Logic Gates in specific contexts. This chapter will explore how Lab Manual For Logic Gates is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Lab Manual For Logic Gates. The final chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Lab Manual For Logic Gates.

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