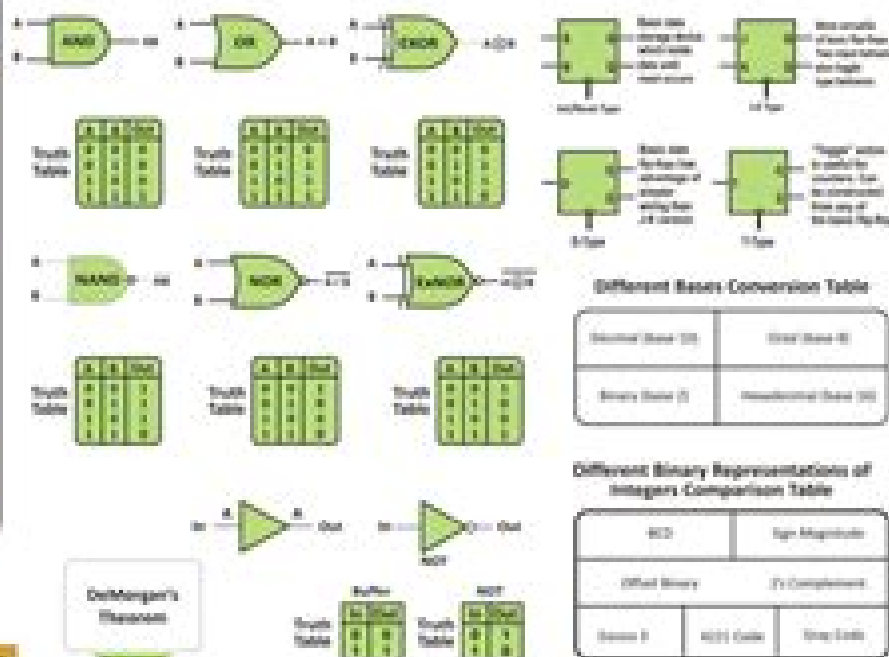




Logic Devices Families

The types of logic devices are classified in "families", of which the most important are TTL and CMOS. The main families are :

- TTL (Transistor-Transistor Logic) made of bipolar transistors.
- CMOS (Complementary Metal Oxide Semiconductor) made from MOSFETs
- ECL (Emitter Coupled Logic) for extremely High speeds.
- NMOS, PMOS for VLSI large scale integrated circuits.



Different Bases Conversion Table

Decimal Base (10)	Binary Base (2)
Binary Base (2)	Hexadecimal Base (16)

Different Binary Representations of Integers Comparison Table

BCD	Sign Magnitude
Offset Binary	2's Complement
Decimal D	BCD Code

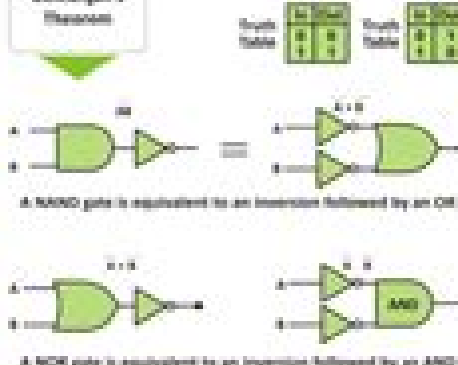
Binary Function of Two Variables

1. Null	0
2. AND	AB
3. A AND NOT B	$A\bar{B}$
4. NOT A AND B	$\bar{A}B$
5. Exclusive OR	$A\oplus B$
6. OR	$A+B$
7. NOT OR	$\overline{A+B}$
8. Exclusive NOR	$\overline{A\oplus B}$
9. Not B	$\bar{B}$
10. A OR NOT B	$A+\bar{B}$
11. NOT A	$\bar{A}$
12. NOT A OR B	$\bar{A}+B$
13. NOT A AND B	$\bar{A}B$
14. IDENTITY	1

Rules of Digital Logic

$A+B = B+A$	Commutative Law
$A+0 = A$	Identity Law
$A+1 = 1$	Domination Law
$A+A = A$	Idempotent Law
$A+\bar{A} = 1$	Complement Law
$A+\bar{A}B = A+B$	Consensus Theorem
$A+\bar{A}B = A+B$	Consensus Theorem
$A+\bar{A}B = A+B$	Consensus Theorem
$A+\bar{A}B = A+B$	Consensus Theorem

DeMorgan's Theorem



IC Series Designation

TTL Series	Profile	CMOS Series	Profile
Standard TTL	74	Metal gate CMOS	4000 or 4000
High Speed TTL	74S	Metal gate, pin-compatible with TTL	74C
Low Power TTL	74LS	Silicon gate, pin-compatible with TTL, high speed	74VHC
Schottky TTL	74S	Silicon gate, high speed, pin-compatible with TTL	74VHC
Advanced Schottky TTL	74ALS	Silicon gate, high speed, pin-compatible with TTL	74VHC
Advanced low power Schottky TTL	74ALS	Silicon gate, high speed, pin-compatible with TTL	74VHC

Basic Digital Electronics

J.A. Strong



Basic Digital Electronics:

Basic Digital Electronics Ray Ryan, 1990 A guide to digital circuitry for students and hobbyists covering the latest memory chips and packages microprocessor basics alphanumeric codes demultiplexers and LCDs It retains the best chapters from the first edition including examples of the application for digital circuitry **Basic Digital Electronics** M.V.

Subramanyam, Bhupesh Bhatia, 2008 The textbook has been designed for the undergraduate students of Electrical and Electronics Electronics and Communication Computer Science Electronics and Instrumentation Information Technology and Electronics and Control Engineering This book provides an accessible and practical treatment to many combinational and sequential circuits Each topic has been discussed in sufficient depth to expose the fundamental principles concepts techniques which are necessary to understand the subject thoroughly Salient Features of the Book Numerous worked out examples highlight the need for intelligent approximation to achieve more accuracy in lesser time Short answer questions at the end of each chapter help in easy understanding of the subject Large number of review questions and unsolved problems to develop a clear understanding of basic principles Previous GATE paper solutions are the unique feature of this book

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introduction explains exactly how digital circuits are designed from the basic circuit to the advanced system. It covers combinational logic circuits which collect logic signals to sequential logic circuits which embody time and memory to progress through sequences of states. The primer also highlights digital arithmetic and the integrated circuits that implement the logic functions. Based on the author's extensive experience in teaching digital electronics to undergraduates, the book translates theory directly into practice and presents the essential information in a compact, digestible style. Worked problems and examples are accompanied by abbreviated solutions with demonstrations to ensure that the design material and the circuits operation are fully understood. This is essential reading for any electronic or electrical engineering student new to digital electronics and requiring a succinct yet comprehensive introduction. **Basic Digital Electronics** Ray Ryan, 1975

Fundamental of Digital Electronics And Microprocessors A.K.Chhabra, 2005. In the recent years there has been rapid advances in the field of Digital Electronics and Microprocessor. This book is intended to help students to keep pace with these latest developments. The present book is a revised version of an earlier book, *Introduction to Digital Computers*, by the same author. Now this book is written in a lucid and simple language which gives a clear explanation of the basics of Digital Electronics, Computers and microprocessors. **Basic Digital Electronics** John R. Burger, 1995. *Basic Digital Electronics* is ideal for electrical or computer engineering seniors who need to know more about the analog underpinnings of the digital world. Chapter 1 distinguishes design from analysis so that those who use the text are constantly aware of this distinction. Each chapter inspires its readers to think creatively via simple exercises dealing with design and analysis plus various simulation exercises. An appendix suggests laboratory design projects that include device characterizations. To summarize this text presents digital electronics as it applies to integrated circuit technology. An engineer today must have a real understanding of the material in this text. Digital Electronics Demystified Myke Predko, 2005-01-11. The field of teaching digital electronics has not changed significantly in the past 20 years. Many of the same books that first became available in the late 1970s and early 1980s are still being used as basic texts. In the 20 years since these were written, the basic rules have not changed but they do not provide strong links to modern electronics including CMOS logic, Programmable Logic Devices, and microprocessor/microcontroller interfacing. Courses teaching introductory digital electronics will fill in the missing areas of information for students but neither the instructors nor students have resources to explain modern technology and interfaces. One assumption made by all the standard texts is that experimenting with digital electronics cannot be done easily in the proposed book. *Digital guru* Myke Predko will show how readers can set up their own apparatus for experimenting with digital electronics for less than 10

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