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logic design or computer engineering courses in electrical and computer engineering or computer science at the sophomore- or junior-level. Many recent texts place instructors in the difficult position of choosing ...

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Counters. A sequential circuit that goes through a prescribed sequence of states upon the application of input pulses is called a counter. The input pulses, called count pulses, may be clock pulses. In a counter, the sequence of states may follow a binary count or any other ...

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## **CircuitVerse - Online Digital Logic Circuit Simulator**

Digital electronic circuits operate with voltages of two logic levels namely Logic Low and Logic High. The range of voltages corresponding to Logic Low is represented with '0'. Similarly, the range of voltages corresponding to Logic High is represented with '1'.

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J. LOGIC  
PROGRAMMING  
1987:4:59-82 59 LOGIC  
PROGRAMMING AND  
DIGITAL CIRCUIT  
ANALYSIS W. F.  
CLOCKSIN D We show  
how the unique  
character of logic  
programming can be  
exploited for the  
purpose of specifying  
and automatically



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reasoning about  
electrical circuits.

**LOGIC  
PROGRAMMING AND  
DIGITAL CIRCUIT  
ANALYSIS**

Define the following  
acronyms as they  
apply to digital logic  
circuits: Perhaps the  
simplest form of  
programmable logic is  
a PROM integrated  
circuit, programmed  
with a specific truth  
table. Take for instance

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this example of a 256  
× 1 PROM: Suppose we  
wished to program this  
memory IC to act as a

...

## **Programmable Logic Technology Worksheet - Digital Circuits**

A comparator is a combinational logic circuit that compares input bits and gives an output that indicates the equality/inequality of a digital circuit.

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Multiplier - Designing of 2-bit and 3-bit binary multiplier circuits. To multiply binary digits we need a special digital circuit called a multiplier.

## **Digital Logic Design and Digital Electronics Course**

Logic. We're not talking about philosophical logic: modus ponens and the like. We're talking about boolean logic aka digital logic.

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Boolean logic gets its name from George Boole who formulated the subject in his 1847 book *The Mathematical Analysis of Logic*. Boole defined an algebra (not shockingly, called Boolean Algebra) for manipulating combinations of True and False values.

**Boolean Logic |  
Digital Circuits 1:  
Binary, Boolean, and**

...

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Introduction to Digital  
Logic Basics Hardware  
consists of a few  
simple building blocks  
<sup>3</sup>/<sub>4</sub>These are called logic  
gates AND, OR, NOT, ...  
NAND, NOR, XOR, ... L i  
t b i l t i t i tLogic gates  
are built using  
transistors NOT gate  
can be implemented by  
a single transistor AND  
gate requires 3

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transistors Transistors are the fundamental devices Pentium consists of 3 million transistors

## **Digital Logic Design**

Exponential improvement in functionality and performance of digital integrated circuits has revolutionized the way we live and work. The continued scaling down of MOS transistors has broadened the scope of



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