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show how the unique character of logic programming can be exploited for the purpose of specifying and automatically 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 this example of a  $256 \times 1$  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. Multiplier – Designing of 2-bit and 3-bit binary multiplier circuits. To multiply binary digits we need a special digital circuit called a multiplier.

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

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

## **Digital Logic Design**

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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 use for circuit technology to the point that texts on the topic are generally lacking after a few years. The second edition of Digital Integrated Circuits: Analysis and Design focuses on ...

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