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DIGITAL LOGIC CIRCUITS - Engineering

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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A digital circuit is often constructed from small electronic circuits called logic gates. Each logic gate represents a function of boolean logic. A logic gate is an arrangement of electrically controlled switches. The output is an electrical flow or voltage, that can, in turn, control more logic gates.

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Applications of circuit design. Digital logic circuit analysis and design form the base of computer engineering and electrical engineering. This system builds complex electronics circuits that use computational features such as power, logic functions, and user inputs. Hardware such as circuits boards microchips etc is developed using this design.

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Combinational Analysis Automatically generate circuit based on truth table data. This is great to create complex logic circuits and can be easily be made into a subcircuit.

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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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An inhibitor is constituted by a NOT circuit preceding one terminal, of an AND gate. Figure 1 gives the circuit symbol and Boolean equation. The logic circuit states: If $A = 1, B = 1, \dots, N = 1$, then $Y = 1$ provided $S = 0$. If $S = 1$, then the coincidence of A, B, \dots, N is inhibited and $Y = 0$.

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LOGIC OPERATIONS AND TRUTH TABLES Digital logic circuits handle data encoded in binary

form, i.e. signals that have only two values, 0 and 1. Binary logic dealing with " true " and " false "

comes in handy to describe the behaviour of these circuits: 0 is usually associated with " false " and

1 with " true. "

Digital Logic Circuit Analysis And

The circuit working can be analyzed by using output parts like LEDs, Seven Segment Display and

Digital Oscilloscope etc. provided in the software. You can use this software to design

Combinational, Synchronous and Asynchronous Sequential Circuits. This Software may be used by

professionals, hobbyists and students alike. The teachers may incorporate this software in their

courses like Digital Logic and Computer Design, Computer Architecture, Computer Organization

and Embedded Systems.