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# Introduction To Logic Circuits Logic Design With Vhdl

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combinational circuit. By using the combination of logic gates more complex combinational circuits can be implemented such as multiplexers and de-multiplexers, comparators, adders and subtractors, etc. A combinational circuit comprises of input variables,...

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The functioning of AND gate is mathematically given as  $Z = X \cdot Y$ , where Z is the output of the AND gate and X, Y are the inputs. The truth table and logic diagram and circuit diagram for the logical AND gate is shown below. AND logic circuit Logic symbol Truth table. Back to top. Transistor Logic Gates. Like diode, transistor also acts as electronic switch.

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circuits are not introduced until Chap. 12. While technically the arithmetic circuits in Chap. 12 are combinational logic circuits and could be presented in Chap. 4, the student does

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