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Implementation of Boolean Function using Multiplexers Stick Diagram of

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An introduction to Boolean Function Analysis - Dor Minzer

Part 2.7 - Number of Boolean functions over n variables

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Here f maps each length- n binary vector, or string, into a single binary value, or bit. Boolean functions arise in many areas of computer science and mathematics. Here are some examples: □ In circuit design, a Boolean function may represent the desired behavior of a circuit with n inputs and one output.

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problems, and to further explore their applications in cryptography, error correcting codes and communications.

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Thomas W. Cusick, Pantelimon Stănică, in Cryptographic Boolean Functions and Applications, 2009. A Boolean function $f(x)$ in n variables is said to satisfy the Strict Avalanche Criterion (SAC) if changing any one of the n bits in the input x results in the output of the function being changed for exactly half of the 2^{n-1} vectors x with the changed input bit. The SAC is a useful property for a Boolean function in cryptographic applications because satisfying the SAC means that a slight ...

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mathematical tool to model not only computational processes, but also several phenomena in science and engineering. For this reason, the development of the theory of such models has become a compelling need that has attracted the interest of many research groups in recent years.

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Cryptographic Boolean Functions and Applications, Second Edition is designed to be a comprehensive reference for the use of Boolean functions in modern cryptography.

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