Cryptographic Boolean Functions and Applications

By Thomas W. Cusick, Pantelimon Stanica

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Boolean functions are the building blocks of symmetric cryptographic systems. Symmetrical cryptographic algorithms are fundamental tools in the design of all types of digital security systems (i.e. communications, financial and e-commerce).

Cryptographic Boolean Functions and Applications is a concise reference that shows how Boolean functions are used in cryptography. Currently, practitioners who need to apply Boolean functions in the design of cryptographic algorithms and protocols need to patch together needed information from a variety of resources (books, journal articles and other sources). This book compiles the key essential information in one easy to use, step-by-step reference.

Beginning with the basics of the necessary theory the book goes on to examine more technical topics, some of which are at the frontier of current research.

-Serves as a complete resource for the successful design or implementation of cryptographic algorithms or protocols using Boolean functions
-Provides engineers and scientists with a needed reference for the use of Boolean functions in cryptography
-Addresses the issues of cryptographic Boolean functions theory and applications in one concentrated resource.
-Organized logically to help the reader easily understand the topic

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Editorial Review

About the Author
Thomas Cusick has 25 years of experience in cryptography, 60 published papers in that subject and 8 Ph. D. students whose thesis work was in that area. He is currently located at the State University of New York in Buffalo, New York.

Pantelimon Stanica has more than 15 years of experience in the area of cryptography and Boolean functions, more than 35 papers in this subject and 3 Ph.D. students working in the area. He is currently located at the Naval Postgraduate School in Monterey, California.

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