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Bent Functions: Results and Applications to Cryptography ...

Bent Functions: Results and Applications to Cryptography offers a unique survey of the objects of discrete mathematics known as Boolean bent functions. As these maximal, nonlinear Boolean functions and their generalizations have many theoretical and practical applications in combinatorics, coding theory, and cryptography, the text provides a detailed survey of their main results, presenting a systematic overview of their generalizations and applications, and considering open problems in ...

Bent Functions | ScienceDirect

In the mathematical field of combinatorics, a bent function is a special type of Boolean function; so called as they are as different as possible from all linear functions and from all affine functions. This makes the bent functions naturally hard to approximate. Bent functions were defined and named in the 1960s by Oscar Rothaus in research not published until 1976. They have been extensively studied for their applications in cryptography, but have also been applied to spread spectrum, coding t

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A Boolean function f is a bent function if and only if $\sum_{v \in E} f(v) = \pm 2^{n/2}$ for any $v \in E$ and n is even (see, e.g.,). Similarly to the proof of Proposition 12, one can easily get from the Sarkar...

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Bent Functions - 1st Edition

Also bent functions can be used to construct authentications schemes and hash functions and thus a pseudo-random generators. Here, you see the example for instance, this is a round function of the symmetric cipher cast, this as a Canadian cipher and here you see four S-boxes and each S-box has eight bits as input and 32 bits as output.

Introduction and history - Bent functions: results and ...

1 Bent functions are not balanced and then can hardly be used for instance in stream ciphers. 2 A pseudo-random generator using a bent function as combiner or filter is weak against some attacks, like the fast algebraic attack [Courtois 2003], even if the bent function has been modified to make it balanced. 18/68

Bent functions and their connections to coding theory and ...

Bent Functions: Results and Applications to Cryptography offers a unique survey of the objects of discrete mathematics known as Boolean bent functions. As these maximal, nonlinear Boolean functions and their generalizations have many theoretical and practical applications in combinatorics, coding theory, and cryptography, the text provides a detailed survey of their main results, presenting a systematic overview of their generalizations and applications, and considering

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open problems in ...

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English. /. EPUB. Read Online 8.8 MB Download. This book gives a detailed survey of the main results on bent functions over finite fields, presents a systematic overview of their generalizations, variations and applications, considers open problems in classification and systematization of bent functions, and discusses proofs of several results. This book uniquely provides a necessary comprehensive coverage of bent functions.

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15.5 Bent Functions Over Quasi-Frobenius Local Rings; 15.6 Generalized Boolean Bent Functions (of Schmidt) 15.7 Bent Functions from a Finite Abelian Group into the Set of Complex Numbers on the Unit Circle; 15.8 Bent Functions from a Finite Abelian Group into a Finite Abelian Group; 15.9 Non-Abelian Bent Functions; 15.10 Vectorial G-Bent Functions

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undergone by some ways. Experiencing, listening to the other experience, adventuring, studying, training, and more practical undertakings may support you to improve. But here, if you do not have tolerable get older to get the

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Bent Functions: Results and Applications to Cryptography ...

Provides a detailed survey of bent functions and their main results, presenting a systematic overview of their generalizations and applications Presents a systematic and detailed survey of hundreds...

Bent Functions: Results and Applications to Cryptography ...

So here we see two prime numbers, and in bent functions we see their representation in two bent functions. In some sense, it's possible to say that prime numbers forms such "basis" in the set of odd numbers and the same ideas for bent functions. Bent functions form a basis in the set of all Boolean functions, in this sense you see.

Bent sum decomposition problem - Bent functions: results ...

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These functions have a remarkable property distinguishes bent functions as a special mysterious class and leads to numerous applications of bent functions in combinatorics, coding theory, and cryptography. In this book a detailed overview of results in bent functions is given.

Bent functions : results and applications to cryptography ...

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Bent Functions: Results and Applications to Cryptography offers a unique survey of the objects of discrete mathematics known as Boolean bent functions. As these maximal, nonlinear Boolean functions and

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their generalizations have many theoretical and practical applications in combinatorics, coding theory, and cryptography, the text provides a detailed survey of their main results, presenting a systematic overview of their generalizations and applications, and considering open problems in classification and systematization of bent functions. The text is appropriate for novices and advanced researchers, discussing proofs of several results, including the automorphism group of bent functions, the lower bound for the number of bent functions, and more. Provides a detailed survey of bent functions and their main results, presenting a systematic overview of their generalizations and applications Presents a systematic and detailed survey of hundreds of results in the area of highly nonlinear Boolean functions in cryptography Appropriate coverage for students from advanced specialists in cryptography, mathematics, and creators of ciphers

This book gives a detailed survey of the main results on bent functions over finite fields, presents a systematic overview of their generalizations, variations and applications, considers open problems in classification and systematization of bent functions, and discusses proofs of several results. This book uniquely provides a necessary comprehensive coverage of bent functions. It serves as a useful reference for researchers in discrete mathematics, coding and

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cryptography. Students and professors in mathematics and computer science will also find the content valuable, especially those interested in mathematical foundations of cryptography. It can be used as a supplementary text for university courses on discrete mathematics, Boolean functions, or cryptography, and is appropriate for both basic classes for under-graduate students and advanced courses for specialists in cryptography and mathematics.

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

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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

Boolean functions are essential to systems for secure and reliable communication. This comprehensive survey of Boolean functions for cryptography and coding covers the whole domain and all important results, building on the author's influential articles with additional topics and recent results. A useful resource for researchers and graduate students, the book balances detailed discussions of properties and parameters with examples of various types of cryptographic attacks that motivate the consideration of these parameters. It provides all the necessary background on mathematics, cryptography, and coding, and an overview on recent applications, such as side channel attacks on smart cards, cloud computing through fully homomorphic encryption, and local pseudo-random generators. The result is a complete and accessible text on the state of the art in single and multiple output Boolean functions that illustrates the interaction between mathematics, computer science, and telecommunications.

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This graduate-level text gives a thorough overview of the analysis of Boolean functions, beginning with the most basic definitions and proceeding to advanced topics.

Combinatorics and finite fields are of great importance in modern applications such as in the analysis of algorithms, in information and communication theory, and in signal processing and coding theory. This book contains survey articles on topics such as difference sets, polynomials, and pseudorandomness.

Combinatorics and finite fields are of great importance in modern applications such as in the analysis of algorithms, in information and communication theory, and in signal processing and coding theory. This book contains survey articles on topics such as difference sets, polynomials, and pseudorandomness.

Cryptographic Boolean Functions and Applications, Second Edition is designed to be a comprehensive reference for the use of Boolean functions in modern cryptography. While the vast majority of research on cryptographic Boolean functions has been achieved since the 1970s, when cryptography began to be widely used in everyday transactions, in

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particular banking, relevant material is scattered over hundreds of journal articles, conference proceedings, books, reports and notes, some of them only available online. This book follows the previous edition in sifting through this compendium and gathering the most significant information in one concise reference book. The work therefore encompasses over 600 citations, covering every aspect of the applications of cryptographic Boolean functions. Since 2008, the subject has seen a very large number of new results, and in response, the authors have prepared a new chapter on special functions. The new edition brings 100 completely new references and an expansion of 50 new pages, along with heavy revision throughout the text. Presents a foundational approach, beginning with the basics of the necessary theory, then progressing to more complex content Includes major concepts that are presented with complete proofs, with an emphasis on how they can be applied Includes an extensive list of references, including 100 new to this edition that were chosen to highlight relevant topics Contains a section on special functions and all-new numerical examples

A collection of papers written by prominent experts that examine a variety of advanced topics related to Boolean functions and expressions.

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Statistics and Probability for Engineering Applications provides a complete discussion of all the major topics typically covered in a college engineering statistics course. This textbook minimizes the derivations and mathematical theory, focusing instead on the information and techniques most needed and used in engineering applications. It is filled with practical techniques directly applicable on the job. Written by an experienced industry engineer and statistics professor, this book makes learning statistical methods easier for today's student. This book can be read sequentially like a normal textbook, but it is designed to be used as a handbook, pointing the reader to the topics and sections pertinent to a particular type of statistical problem. Each new concept is clearly and briefly described, whenever possible by relating it to previous topics. Then the student is given carefully chosen examples to deepen understanding of the basic ideas and how they are applied in engineering. The examples and case studies are taken from real-world engineering problems and use real data. A number of practice problems are provided for each section, with answers in the back for selected problems. This book will appeal to engineers in the entire engineering spectrum (electronics/electrical, mechanical, chemical, and civil engineering); engineering students and students taking computer science/computer

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