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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 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

Bent function - Wikipedia

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A Boolean function f is a bent function if and only if $\hat{f}(v) = \pm 2^{n/2}$ for any $v \in E_n$ 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 ...
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Bent Functions: Results and Applications to Cryptography ...
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.

Bent Functions: Fundamentals And Results Download
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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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 ...
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.

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