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*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

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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  $f(v) = \pm 2^{n/2}$  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...

*Bent functions: results and applications. A survey ...*

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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 ?lter is weak against some attacks, like the fast algebraic attack [Courtois 2003], even if the bent function has been modi?ed to make it balanced. 18/68



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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

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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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Read Book Bent Functions Results And Applications To Cryptography inspiring the brain to think greater than before and faster can be 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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Provides a detailed survey of bent functions and their main results,

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presenting a systematic overview of their generalizations and applications Presents a systematic and detailed survey of hundreds...

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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

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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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