

Bent Functions Results And Applications To Cryptography

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Bent Functions Results And Applications

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 ...

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Bent Functions: Results and Applications to Cryptography 1 ...

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Bent Functions - 1st Edition - Elsevier

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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Bent function - Wikipedia

Chapter 10: Bent Functions and Other Cryptographic Properties Abstract; Introduction; 10.1 Cryptographic Criteria; 10.2 High Degree and Balancedness; 10.3 Correlation Immunity and Resiliency; 10.4 Algebraic Immunity; 10.5 Vectorial Bent Functions, Almost Bent Functions, and Almost Perfect Nonlinear Functions; Chapter 11: Distances Between Bent Functions

Bent functions: Results and Applications to Cryptography ...

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Bent Functions: Results and Applications to Cryptography ...

Key Features Provides a detailed survey of bent functions and their main results, presenting a systematic overview... Presents a systematic and detailed survey of hundreds of results in the area

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of highly nonlinear Boolean...

Appropriate coverage for students from advanced specialists in ...

Bent Functions | ScienceDirect

In this preliminary period, several people were interested in bent functions, in particular Lloyd Welch and Gerry Mitchell. It seems that bent functions have been studied by V.A. Eliseev and O.P. Stepchenkov in the Soviet Union already in 1962, under the name of minimal functions. Some results were published as technical reports but never declassified.

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

In this survey, we revisit the Rothaus paper and the chapter of Dillon's thesis dedicated to bent functions, and we describe the main results obtained on these functions during these last 40 years. We also cover more briefly super-classes of Boolean functions, vectorial bent functions and bent functions in odd

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Four decades of research on bent functions | SpringerLink

Bent Functions: Results and Applications
to Cryptography: Amazon.it: Tokareva,
Natalia: Libri in altre lingue

Bent Functions: Results and Applications to Cryptography ...

Bent functions come in pairs. For a bent
function f on F_{2^n} , we define its dual
function f^e as a Boolean function on F_{2^n}
satisfying the equation : $(-1)^{f^e(x)} = \chi_{f(x)}$
for all $x \in F_{2^n}$. The dual f^e of a
bent function is also bent. De nition 2.
Let n be an even integer. A Boolean
function f on F_{2^n} is said to be semi-bent
if its Walsh transform satisfies $c_{f(a)} \in$
 $\{0, \pm 2$

Bent and Semi-bent Functions via Linear Translators

This book gives a detailed survey of the
main results on bent functions over finite
fields, presents a systematic overview of

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their generalizations, variations and applications, considers open problems in classification and systematization of bent functions, and discusses proofs of several results.

Bent Functions | SpringerLink

Bent functions: results and applications. Algebraic normal form of a bent function 8:18. Taught By. Kutsenko Aleksandr. Researcher. Anastasiya Gorodilova. Senior Lecturer, PhD. ... Another very nice property of bent functions is that linear and quadratic parts of algebraic normal form of bent functions can be any, and it's well known that the ...

Algebraic normal form of a bent function - Bent functions ...

Two bent functions are square equivalent if the bent square of one of it can be obtained from the bent square of the second one by changing the signs in the matrix and also by permutations of rows and the columns in these matrices. So you see these eight classes and also

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you see the numbers of bent functions in each class.

Bent rectangles and simple constructions of bent functions ...

Bent functions : results and applications to cryptography. [Natalia Tokareva] -- This book is devoted to such objects of discrete mathematics as Boolean bent functions. These functions have a remarkable property distinguishes bent functions as a special mysterious class and leads ...

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.

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