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A polynomial over a finite ring R is called permutation polynomial if it induces a bijection from R to R . Permutation polynomials have been a subject of study for many years and have applications in many areas of science and engineering. This monograph contains some results related to permutation polynomials over finite rings and finite fields.

Permutation Polynomials and their Applications in ...

The polynomial $x^q + bx$ is a permutation polynomial over the field F_q , if and only if $p = 6k - 1$, m is odd, and b is of the form (7) $b = q + 16(6t + 1)$ or $b = q + 16(6t + 5)$, $t = 0, 1, \dots, q$

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Permutation polynomials have been studied extensively and have important applications in coding theory, cryptography, combinatorics, and design theory [3][4][5][6]. In the recent years, there has...

(PDF) Permutation group theory and permutation polynomials

A polynomial $f(x) \in \mathbb{F}_q[x]$ is called a permutation polynomial (PP) of \mathbb{F}_q if it induces a bijection from \mathbb{F}_q to itself. For any PP $f(x) \in \mathbb{F}_q[x]$, there exists a polynomial $f^{-1}(x) \in \mathbb{F}_q[x]$ such that $f^{-1}(f(c)) = c$ for each $c \in \mathbb{F}_q$ or equivalently $f^{-1}(f(x)) \equiv x \pmod{x^q - x}$, and the polynomial $f^{-1}(x)$ is unique in the sense of reduction modulo $x^q - x$.

On inverses of some permutation polynomials over finite ...

A polynomial $f(x) \in \mathbb{F}_q[x]$ is called a permutation polynomial (PP) if its associated polynomial mapping $f: c \mapsto f(c)$ from \mathbb{F}_q to itself is a bijection. PPs over finite fields have important applications in cryptography, coding theory and combinatorial design theory. So, finding new PPs is of great interest in both theoretical and applied aspects.

Two types of permutation polynomials with special forms ...

Permutation polynomials of finite fields without further considerations are not difficult to construct. (There are $q!$ PPs of \mathbb{F}_q , all of which are given by the Lagrange interpolation.) In general, we are only interested in the PPs that either have a simple or nice algebraic appearance or possess additional extraordinary properties; such additional properties are usually required by applications of PPs in other areas of mathematics and engineering.

Permutation polynomials over finite fields — A survey of ...

Permutation polynomials over finite rings have several applications in combinatorics, coding theory and cryptography. For example, the RC6 block cipher uses the permutation polynomial $x + 2x^2$ over

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the finite ring \mathbb{Z}_n , where n is the word size of machine. In 2001, Rivest found an exact characterization of permutation polynomials over finite rings \mathbb{Z}_n .

Semantic Scholar

A polynomial can represent every function from a finite field to itself. The functions which are also permutations of the field give rise to permutation polynomials, which have potential applications in cryptology and coding theory. Permutation polynomials over finite rings are studied with respect to the sequences they generate.

Sequences of numbers via permutation polynomials over some ...
Permutation Polynomials and their Applications in Cryptography, 978-3-8484-0611-1, 9783848406111, 384840611X, Mathematics, A polynomial over a finite ring R is called permutation polynomial if it induces a bijection from R to R . Permutation polynomials have been a subject of study for many years and have applications in many areas of science and engineering.

Permutation Polynomials and their Applications in ...

The study of permutation polynomials over finite fields has attracted many scholars' attentions due to their wide applications and there are several different forms of permutations over finite...

(PDF) A link between two classes of permutation polynomials
For $n = 6$ we explicitly list all a 's for which $a x d$ is a complete permutation polynomial (CPP) over F_q . Some previous characterization results by Wu et al. for $n = 4$ are also made more explicit by providing a complete list of a 's such that $a x d$ is a CPP. ... Muratovic-Ribic, E. Pasalic, A note on complete polynomials over finite fields and ...

On monomial complete permutation polynomials | Finite ...

Abstract Permutation polynomials have been an interesting subject

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of study for a long time and have applications in many areas of science and engineering. However, only a small number of specific classes of permutation polynomials are known so far.

More explicit classes of permutation polynomials of F_{3^m} ...
Qiang (Steven) Wang's papers . The dynamics of permutations on irreducible polynomials (with L. Reis), *Finite Fields and Their Applications* 64 (2020), 101664. Cycle structures of a class of Cascaded FSRs (with Z. Chang and G. Gong), *IEEE Transactions on Information Theory*, to appear. Construction of irreducible polynomials through rational transformations (with D. Panario and L. Reis), *Journal ...*

Qiang (Steven) Wang's publications

A polynomial f over a finite field F is a permutation polynomial if the mapping $F \rightarrow F$ defined by f is one-to-one. We are concerned here with binomials, that is, polynomials of the shape ...

(PDF) Permutation binomials - ResearchGate

Permutation polynomials over finite fields. Dickson polynomials, reversed Dickson polynomials, and polynomials defined by functional equations. Self-reciprocal polynomials and their applications in coding theory. Knot Theory and Quandle Theory.

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