A SOME PROPERTIES OF LINEAR CODES OVER GF (4)

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ABSTRACT

The idea of some properties of linear codes over GF (4) due to Carry Huffman and Vera Pless is considered in the context of dual codes over GF(4). In [8], the minimum weight d of a code is specified, we call it an [n, k, d] Code n is the length of the code k is its dimension and d the minimum weight. For an even formally self dual code we can express it as [n, n/2, d]. The aim of this note is to highlight certain properties of linear codes over GF (4) and even formally self codes.

KEYWORDS: Formally self dual code, cyclic code, self dual code, dual code, weight enumerator, complete weight enumerator, extreme weight enumerator.

REFERENCES


