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On intersections of perfect binary codes. (English) Zbl 1100.94027

Bayreuther Math. Schr. 74, 1-6 (2005).

Summary: Intersections of perfect 1-error correcting binary codes are studied. It is proved that for any two integers k_1 and k_2 satisfying $1 \leq k_i \leq 2^{(n+1)/2 - \log(n+1)}$, $i = 1, 2$ there exist perfect codes C_1 and C_2 , both of length $n = 2^m - 1$, $m \geq 4$, with $|C_1 \cap C_2| = 2k_1k_2$.

MSC:

94B65 Bounds on codes

94B60 Other types of codes

Cited in 1 Document

Keywords:

nonlinear codes