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(t, ε)-disjunct matrices from two constant weight codes. (Chinese. English summary)

Summary: The (t, ε)-disjunction matrix is a new random mathematical model in combinatorial group testing theory. Based on two binary superposition codes, the (t, ε)-disjunction matrices are constructed by properties and parameters of two binary superposition codes, and the properties and parameters of the (t, ε)-disjunction matrix are given.

MSC:
05B20 Combinatorial aspects of matrices (incidence, Hadamard, etc.)
94B25 Combinatorial codes

Keywords:
binary superposition codes; disjunction matrix; average Hamming distance