

OPTIMAL DSS FROM PCDP WITH A REGULAR HOLE

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Abstract

Difference systems of sets (DSSs) are combinatorial constructions which have been introduced in 1971 by Levenshtein for the construction of codes for synchronization. In this paper, we give the constructions of optimal difference systems of sets from partition-type difference packing with a regular hole and obtain new infinite classes of optimal DSSs.

Keywords and phrases: difference system of sets, code synchronization, optimal, partition-type difference packing with a hole.



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