

## A CONSTRUCTION OF OPTIMAL SETS OF FH SEQUENCES

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## Abstract

In communication systems, frequency hopping spread spectrum and direct sequence spread spectrum are two main spread coding technologies. Frequency hopping sequences are used in FH-CDMA systems. In this paper, new optimal parameters of sets of frequency hopping sequences are obtained with subcodes of the generalized Reed-Solomon codes.

**Keywords and phrases:** cyclic codes, frequency hopping sequence, the generalized Reed-Solomon codes.



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