

DOWNLOAD CYCLIC MENON DIFFERENCE SETS CIRCULANT HADAMARD MATRICES AND BARKER SEQUENCES

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Cyclic Difference Sets And Cyclic Hadamard Matrices N. A. Carella, December 2011. Abstract: The collection of cyclic Hadamard matrices $\{ H = (a_{ij}) : 0 \leq i, j < n, \text{ and } a_{ii} = 1, 1 \}$ of order $n \neq 1$, is characterized by the orthogonality relation $HH^T = nI$. Only two of such matrices are currently known.

Cyclic Difference Sets And Cyclic Hadamard Matrices N. A

A construction is given for difference sets in certain non-cyclic groups with the parameters $v = q^{s+1} [(q^{s+1} - 1) / (q - 1)] + 1$, $k = q^s (q^{s+1} - 1) / (q - 1)$, $\lambda = q^s (q^{s+1} - 1) / (q - 1)$, $n = q^{2s}$ for every prime power q and every positive integer s . If q^s is odd, the construction yields at least $1/2 (q^s + 1)$ inequivalent difference sets in the same group.

A family of difference sets in non-cyclic groups

Menon difference sets have parameters $(4N - 2, 2N - 2, N, N - 1)$. These have been constructed for $N = 2a^3b$, $0 < a, b$, but the only known constructions in abelian groups require that the Sylow 3-subgroup be elementary abelian (there are some nonabelian examples).

Note New Constructions of Menon Difference Sets - CORE

JOURNAL OF COMBINATORIAL THEORY, Series A 64, 329-336 (1993) Note New Constructions of Menon Difference Sets K. T. ARASU* Wright State University, Dayton, Ohio 45435 JAMES!

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Menon difference sets have parameters $(4N - 2, 2N - 2, N, N - 1)$. These have been constructed for $N = 2a^3b$, $0 < a, b$, but the only known constructions in abelian groups require that the Sylow 3-subgroup be elementary abelian (there are some nonabelian examples).

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difference set, cyclic difference set and is a collection of d_i (ioi) and d_j in D_0 [The terms v, k, h - difference set are inter-the later two being used when there is some reason to stress either the contrast with general group difference sets or the particular parameters v, k, k involved.]

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Key words Menon difference sets, intersection numbers, character table, complete cyclic basis Received 10 October 1997 Published 20 May 1999

A Note on Menon Difference Sets - xbn.pku.edu.cn

Difference sets and Hadamard matrices Pdraig Á Catháin National University of Ireland, Galway 14 March 2012 ... The group $PGL_3(q)$ contains a cyclic subgroup of order $q^2 + q + 1$ which acts regularly on the points of $PG_2(q)$ and regularly on the lines of $PG_2(q)$. Corollary

Difference sets and Hadamard matrices - Monash University

JOURNAL OF COMBINATORIAL THEORY (A) 19, 5 1 -65 (1975) A Generalization of Cyclic Difference Sets

A generalization of cyclic difference sets I - [PDF Document]

A Menon difference set has the parameters $(4N-1, 2N-1, N-1, N-1)$. In the abelian case it is equivalent to a perfect binary array, which is a multi-dimensional matrix with elements ± 1 such that all out-of-phase periodic autocorrelation coefficients are zero.

A nonexistence result for abelian menon difference sets

difference set in the group and leave the parameters $(2v, u, 2v-u)$ understood. The following construction theorem (Theorem 2 in [7]) is for Menon difference sets in some groups of order $4v$ from a Menon difference set in a group of order v and a relative difference set in a group of order $2v$.

New Classes of Groups Containing Menon Difference Sets

Set difference Definition: Let A and B be sets. The difference of A and B , denoted by $A - B$, is the set containing those elements that are in A but not in B . The difference of A and B is also called the complement of B with respect to A . Alternate: $A - B = \{ x \mid x \in A \text{ and } x \notin B \}$.

Sets and set operations - University of Pittsburgh

Difference sets are important in design theory because they are equivalent ... Although some authors have instead used the names Menon difference set or H -set we propose that for historical reasons and for consistency ... the Sylow p -subgroup of G/H is cyclic. Then

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