



Non-existence of quasi-symmetric designs with restricted block graphs

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Received: 19 May 2021 / Revised: 3 November 2021 / Accepted: 21 January 2022

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Abstract

Quasi-symmetric designs (QSDs) with particular block graphs are investigated. We rule out the possibility of a QSD with block graph that has the same parameters as that of the Symplectic graph $Sp(2r, q)$, where q is an odd prime power or its complement. We obtain support for Bagchi's recent conjecture, which states that "For the existence of a quasi-symmetric 2-design with block graph $K_{m \times n}$, we must have $m \equiv n + 1 \pmod{n^2}$ ". Under certain conditions, we rule out the possibility of a QSD having a pseudo-Latin square or negative Latin square block graph.

Keywords Strongly regular graphs · Quasi-symmetric designs · Block graph

Mathematics Subject Classification 05B05

1 Introduction

Let X be a finite set of v elements called points, and β be a set of k -element subsets of X called blocks, such that each pair of points occur in λ blocks, then the pair $\mathbf{D} = (X, \beta)$ is 2- (v, k, λ) design. For a 2- (v, k, λ) design $\mathbf{D}$, the number of blocks containing α in X is r , which is independent of α . The number of blocks in $\mathbf{D}$ is denoted by b .

An integer λ_1 , $0 \leq \lambda_1 < k$, is an *intersection number* of $\mathbf{D}$ if there exist $B, B' \in \beta$ such that $|B \cap B'| = \lambda_1$. Symmetric designs have exactly one intersection number.

Communicated by K. T. Arasu.

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Quasi Symmetric Designs

Soon-Teck Tan



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Combinatorics of Symmetric Designs Yury J. Ionin, Mohan S. Shrikhande, 2006-05-25 The aim of this book is to provide a unified exposition of the theory of symmetric designs with emphasis on recent developments The authors cover the combinatorial aspects of the theory giving particular attention to the construction of symmetric designs and related objects The last five chapters of the book are devoted to balanced generalized weighing matrices decomposable symmetric designs subdesigns of symmetric designs non embeddable quasi residual designs and Ryser designs Most results in these chapters have never previously appeared in book form The book concludes with a comprehensive bibliography of over 400 entries Researchers in all areas of combinatorial designs including coding theory and finite geometries will find much of interest here Detailed proofs and a large number of exercises make this book suitable as a text for an advanced course in combinatorial designs

On Quasi-symmetric Designs Soon-teck Tan, 1978

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Number Theory and Discrete Mathematics A.K. Agarwal, Bruce C. Berndt, Christian F. Krattenthaler, Gary L. Mullen, K. Ramachandra, Michel Waldschmidt, 2012-12-06 To mark the World Mathematical Year 2000 an International Conference on Number Theory and Discrete Mathematics in honour of the legendary Indian Mathematician Srinivasa Ramanuj was held at the centre for Advanced study in Mathematics Panjab University Chandigarh India during October 2-6 2000 This volume contains the proceedings of that conference In all there were 82 participants including 14 overseas participants from Austria France Hungary Italy Japan Korea Singapore and the USA The conference was inaugurated by Prof K N Pathak Hon Vice Chancellor Panjab University Chandigarh on October 2 2000 Prof Bruce C Berndt of the University of Illinois Urbana Champaign USA delivered the key note address entitled The Life Notebooks and Mathematical Contributions of Srinivasa Ramanujan He described Ramanujan as one of this century's most influential Mathematicians Quoting Mark Kac Prof George E Andrews of the Pennsylvania State University USA in his message for the conference described Ramanujan as a magical genius During the 5 day deliberations invited speakers gave talks on various topics in number theory and discrete mathematics We mention here a few of them just as a sampling M Waldschmidt in his article provides a very nice introduction to the topic of multiple poly logarithms and their special values

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