



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

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

An integer  $\lambda_1$ ,  $0 \leq \lambda_1 < k$ , 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.

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# Quasi Symmetric Designs

**Dean Crnković, Vladimir Tonchev**



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Quasi-symmetric Designs Mohan S. Shrikhande, Sharad S. Sane, 1991-11-29 Design theory is a branch of combinatorics with applications in number theory coding theory and geometry In this book the authors discuss the generalization of results and applications to quasi symmetric designs The coverage is comprehensive and will be useful for researchers and graduate students An attractive feature is the discussion of unsolved problems

**On Quasi-symmetric Designs** Soon-teck Tan, 1978

**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

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**Graphs, Codes and Designs** P. J. Cameron, J. H. van Lint, 1980-07-31 This book is concerned with the relations between graphs error correcting codes and designs in particular how techniques of graph theory and coding theory can give information about designs A major revision and expansion of a previous volume in this series this account includes many examples and new results as well as improved treatments of older material So that non specialists will find the treatment accessible the authors have included short introductions to the three main topics This book will be welcomed by graduate students and research mathematicians and be valuable for advanced courses in finite combinatorics

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*Designs From Linear Codes (Second Edition)* Cunsheng Ding, Chunming Tang, 2021-12-20 Since the publication of the first edition of this monograph a generalisation of the Assmus-Mattson theorem for linear codes over finite fields has been developed two 70 year breakthroughs and a considerable amount of other progress on t designs from linear codes have been made This second edition is a substantial revision and expansion of the first edition Two new chapters and two new appendices have been added and most chapters of the first edition have been revised It provides a well rounded and detailed account of t designs from linear codes Most chapters of this book cover the support designs of linear codes A few chapters deal with designs obtained from linear codes in other ways Connections among ovals hyperovals maximal arcs ovoids special functions linear codes and designs are also investigated This book consists of both classical and recent results on designs from linear codes It is intended to be a reference for postgraduates and researchers who work on combinatorics or coding theory or digital communications or finite geometry It can also be used as a textbook for postgraduates in these subject areas

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