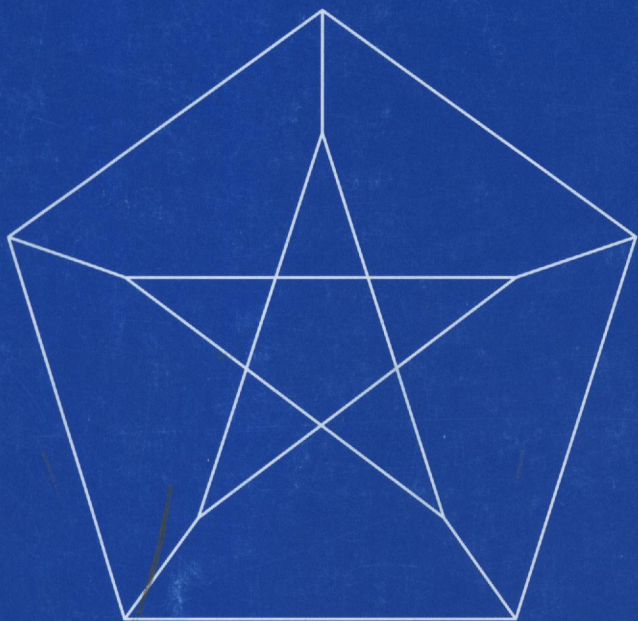


DISCRETE MATHEMATICS



**Papers on the Occasion of the 65th
Birthday of Alex Rosa**

**Guest Editors: Charles J. Colbourn
Jeffrey H. Dinitz
Dalibor Froncek**

Volume 261, Numbers 1–3, Pages 1–462
28 January 2003

Also available on

SCIENCE @ DIRECT®

Discrete Mathematics

Volume 261, Numbers 1–3, 28 January 2003

Papers on the Occasion of the 65th Birthday of Alex Rosa

Guest Editors: Charles J. Colbourn, Jeffrey H. Dinitz and Dalibor Froncek

Contents

Preface	1
<i>R.J.R. Abel, N.J. Finizio and M. Greig</i> (3,6) GWhD(v)—existence results	3
<i>R.E.L. Aldred, J. Širáň and M. Širáň</i> A note on the number of graceful labellings of paths	27
<i>I. Anderson and D.A. Preece</i> Power-sequence terraces for \mathbb{Z}_n where n is an odd prime power	31
<i>L.M. Batten and S. Sane</i> Permutations with a distinct difference property	59
<i>F.E. Bennett, B. Du and H. Zhang</i> Existence of self-orthogonal diagonal Latin squares with a missing subsquare	69
<i>E.J. Billington and D.G. Hoffman</i> Decomposition of complete tripartite graphs into gregarious 4-cycles	87
<i>M. Buratti and A. Del Fra</i> Existence of cyclic k -cycle systems of the complete graph	113
<i>Y. Chang and Y. Miao</i> Constructions for optimal optical orthogonal codes	127
<i>C.J. Colbourn and A.C.H. Ling</i> Graph decompositions with application to wavelength add-drop multiplexing for minimizing SONET ADMs	141
<i>P. Danziger and E. Mendelsohn</i> Bicolour graphs of Steiner triple systems	157
<i>I.J. Dejter</i> Equitable factorizations of Hamming shells	177

<i>D. Deng, R. Rees and H. Shen</i> On the existence and application of incomplete nearly Kirkman triple systems with a hole of size 6 or 12	209
<i>M.J. de Resmini and D. Jungnickel</i> Two infinite families of failed symmetric designs	235
<i>J.H. Dinitz, E.R. Lamken and A.C.H. Ling</i> Complementary partial resolution squares for Steiner triple systems	243
<i>A.D. Forbes, M.J. Grannell and T.S. Griggs</i> On colourings of Steiner triple systems	255
<i>B.D. Gray, R. Mathon, T. Moran and A.P. Street</i> The spectrum of minimal defining sets of some Steiner systems	277
<i>I.D. Gray, J. MacDougall, J.P. McSorley and W.D. Wallis</i> Vertex-magic labeling of trees and forests	285
<i>M. Greig and D.H. Rees</i> Existence of balanced incomplete block designs for many sets of treatments	299
<i>D.G. Hoffman, C.C. Lindner and C.A. Rodger</i> A partial $2k$ -cycle system of order n can be embedded in a $2k$ -cycle system of order $kn + c(k)$, $k \geq 3$, where $c(k)$ is a quadratic function of k	325
<i>S.P. Hurd and D.G. Sarvate</i> An application of partition of indices to enclosings of triple systems	337
<i>L. Ji and L. Zhu</i> Constructions for Steiner quadruple systems with a spanning block design	347
<i>D. Jungnickel and L. Storme</i> Maximal partial spreads in $PG(3, 4)$ and maximal sets of mutually orthogonal latin squares of order 16	361
<i>D.L. Kreher, A.C.H. Ling, R.S. Rees and C.W.H. Lam</i> A note on $\{4\}$ -GDDs of type 2^{10}	373
<i>A.C.H. Ling</i> An application of splittable 4-frames to coloring of $K_{n,n}$	377
<i>Z. Liu and H. Shen</i> Embeddings of almost resolvable triple systems	383
<i>L. Milazzo, Z. Tuza and V. Voloshin</i> Strict colorings of Steiner triple and quadruple systems: a survey	399

<i>G. Quattrocchi</i>	
Embedding handcuffed designs in D -designs, where D is the triangle with attached edge	413
<i>N. Shalaby</i>	
The existence of near-Rosa and hooked near-Rosa sequences	435
<i>J. Yin</i>	
A new proof of a Colbourn–Rosa problem	451
Author index to volume 261	459