

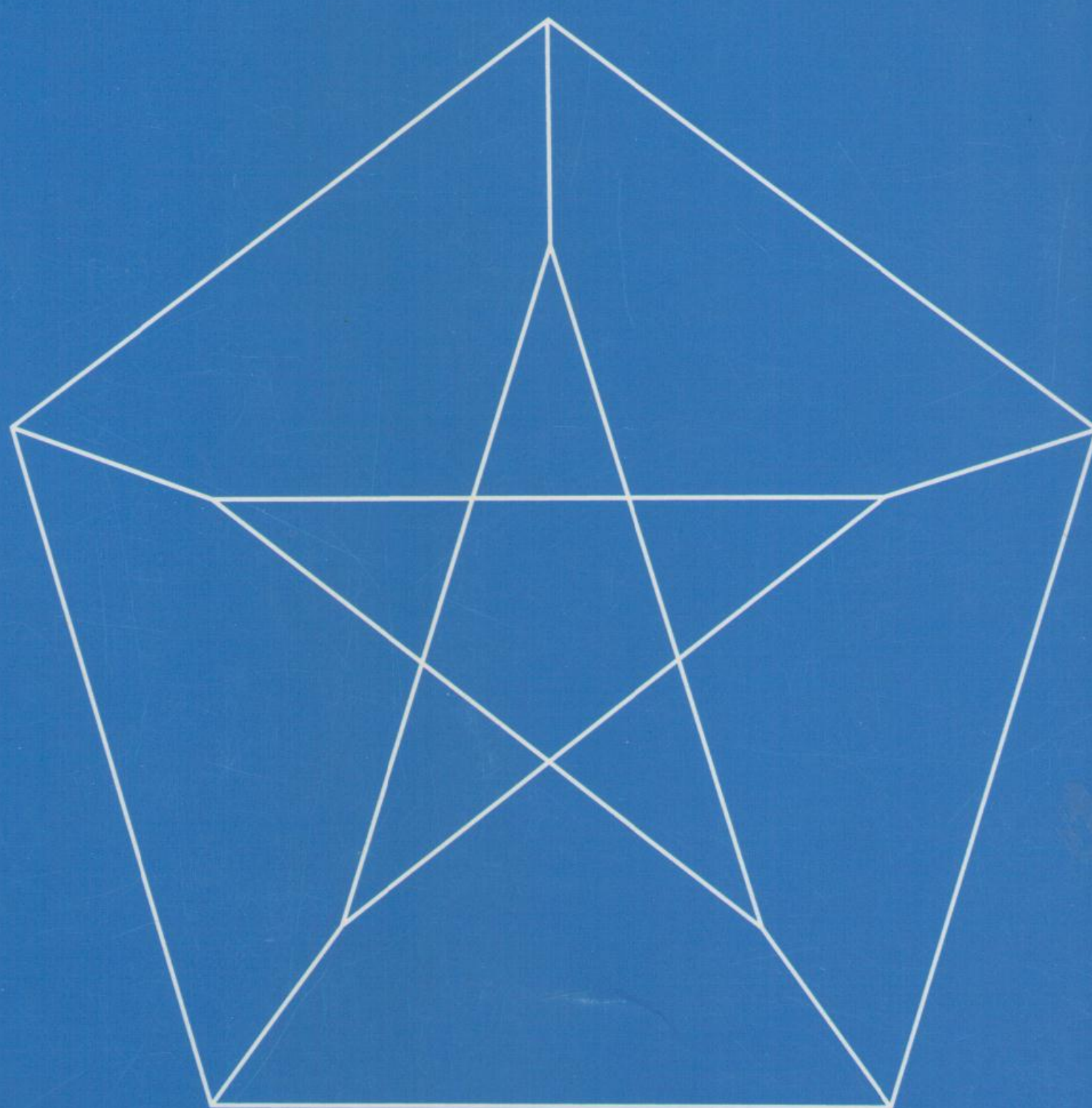
Volume 288
Complete volume

Issues 1-3

28 November 2004

ISSN 0012-365X

DISCRETE MATHEMATICS



Also available on

SCIENCE @ DIRECT®

www.sciencedirect.com

Discrete Mathematics
Volume 288, Issues 1–3, 28 November 2004

Contents

Contributions

- A. Aguglia and A. Bonisoli*
 On the non-existence of a projective plane of order 15 with an A_4 -invariant oval 1
- A. Brandstädt, C.T. Hoàng and J.-M. Vanherpe*
 On minimal prime extensions of a four-vertex graph in a prime graph 9
- B. Du*
 The spectrum of optimal strong partially balanced designs with block size five 19
- B. Guenin, D. Mubayi and P. Tetali*
 A family of switch equivalent graphs 29
- J.Y. Hyun and H.K. Kim*
 The poset structures admitting the extended binary Hamming code to be a perfect code 37
- A.D. Keedwell and G.L. Mullen*
 Sets of partially orthogonal latin squares and projective planes 49
- A.D. Keedwell and V.A. Shcherbacov*
 Construction and properties of (r,s,t) -inverse quasigroups. II 61
- M. Kobeissi and M. Mollard*
 Disjoint cycles and spanning graphs of hypercubes 73
- J.G. Lefevre*
 Steiner trade spectra of complete partite graphs 89
- S.P. Mansilla*
 Infinite families of non-Cayley vertex-transitive tournaments 99
- X. Marcote, C. Balbuena and I. Pelayo*
 Diameter, short paths and superconnectivity in digraphs 113
- T. Maruta*
 The nonexistence of some ternary linear codes of dimension 6 125
- W.C. Shiu*
 Invariant factors of graphs associated with hyperplane arrangements 135
- H. Wang*
 Vertex-disjoint quadrilaterals in graphs 149

Notes

R. Cordovil, D. Forge and S. Klein

How is a chordal graph like a supersolvable binary matroid?

167

H. Pan

A congruence of Lucas' type

173

Y.-I. Peng

Some new results on chromatic uniqueness of K_4 -homeomorphs

177

J. Quistorff

A new nonexistence result for sharply multiply transitive permutation sets

185

Author index to volume 288

187

Guide for authors

189

G.O.H. Katona, Matematik Kutató Intézet, Magyar Tudományos Akadémia, P.O. Box 52, Budapest, Hungary

D.J. Kleitman, Department of Mathematics, Massachusetts Institute of Technology, Cambridge, MA 02139, USA

A.V. Kostochka, Department of Mathematics, University of Illinois at Urbana-Champaign, 1409 West Green Street, Urbana, IL 61801-2975, USA

P. Leroux, Département de Mathématiques et Informatique, Université de Montréal, Succ. A., Montréal, Québec, Canada H3C 3P8

L. Lovász, Microsoft Research, One Microsoft Way, Redmond, WA 98073, USA

A.A. Rosa, Department of Mathematics, Simon Fraser University, Burnaby, BC V5A 1S6, Canada

I.G. Rosenberg, Mathématiques et Statistiques, Université de Montréal, Succ. A., Montréal, Québec, Canada H3C 3J7

S. Rudeanu, Institutul de Matematica, University of Mathematics and Physics, Bucharest, Romania

H. Sachs, TH/Sekt. Mathematik, Rechen-technik und Kybernetik, Postfach 101553, D-60508 Frankfurt, Germany

J. Schonheim, Department of Mathematics, Tel Aviv University, Ramat Aviv, Tel Aviv 6100, Israel

N.J.A. Sloane, AT&T Research Labs., Room C233, P.O. Box 971, 100 Park Ave., Florham Park, NJ 07932-0971, USA

C. Thomassen, Mathematical Institute, Technical University of Denmark, Building 303, DK-2800 Lyngby, Denmark

W.T. Trotter, Department of Mathematics, University of Tennessee, Knoxville, TN 37996, USA

D.J.A. Welsh, Mathematical Institute, University of Oxford, 24-29 St. Giles, Oxford OX1 3LB, UK

D.B. West, Department of Mathematics, University of Illinois at Urbana-Champaign, 1409 West Green Street, Urbana, IL 61801-2975, USA

R. Wille, Fachbereich Mathematik, Technische Hochschule Darmstadt, Schlossgarten-strasse 7, D-64289 Darmstadt, Germany

D.R. Woodall, Department of Mathematics, University of Nottingham, University Park, Nottingham, UK



This journal is part of **ContentsDirect**, the free alerting service which sends tables of contents by e-mail for Elsevier books and journals. You can register for **ContentsDirect** online at: <http://contentsdirect.elsevier.com>