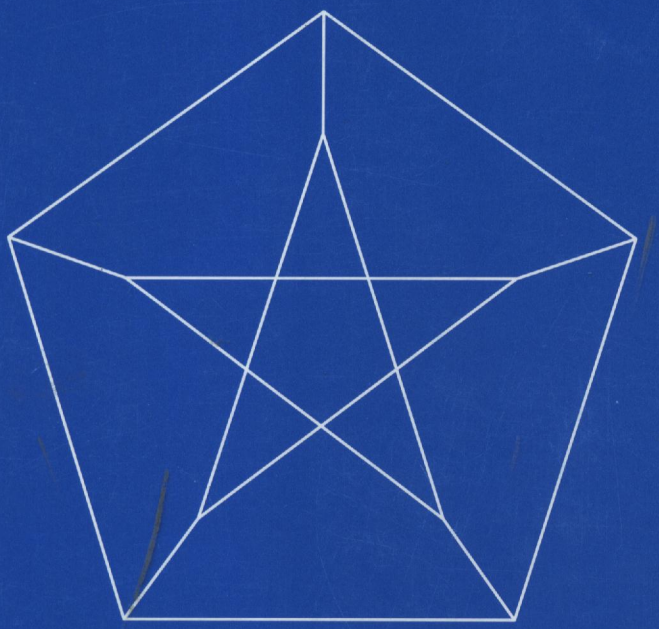
ISSN 0012-365X

DISCRETE MATHEMATICS



Volume 265, Numbers 1–3, Pages 1–422
6 April 2003

Discrete Mathematics
Volume 265, Numbers 1–3, 6 April 2003

Contents

Contributions

T. Adachi, M. Jimbo and S. Kageyama
Combinatorial structure of group divisible designs without α-resolution classes in each group 1

N. Ananchuen and A. Saito
Factor criticality and complete closure of graphs 13

K. Ando, M. Hagita, A. Kaneko, M. Kano, K. Kawarabayashi and A. Saito
Cycles having the same modularity and removable edges in 2-connected graphs 23

B. Borovićanin, S. Grünewald, I. Gutman and M. Petrović
Harmonic graphs with small number of cycles 31

M.R. DeDeo
Non-Ramanujancy of Euclidean graphs of order 2^r 45

T.A. Gulliver, P.R.J. Östergård and N. Senkevitch
Optimal linear rate $\frac{1}{2}$ codes over $\mathbb{F}_5$ and $\mathbb{F}_7$ 59

Q. Huang
A classification of circulant DCI(CI)-digraphs of 2-power order 71

Y. Jang and J. Park
On a MacWilliams type identity and a perfectness for a binary linear $(n, n-1, j)$-poset code 85

W. Li
Graphs with regular monoids 105

Z.-G. Liu
Some operator identities and q-series transformation formulas 119

J.O. Loyola
Sequences with group products from finite regular semigroups 141

M.J. Luczak and C. McDiarmid
Concentration for locally acting permutations 159

J. Oxley
The structure of a 3-connected matroid with a 3-separating set of essential elements 173

M. Pouzet and M. Sobrani
The order type of the collection of finite series-parallel posets 189

R.C. Read
Chain polynomials of graphs 213

G.N. Sárközy, S.M. Selkow and E. Szemerédi
On the number of Hamiltonian cycles in Dirac graphs 237

C.D. Tóth
Illumination of polygons by 45°-floodlights 251

Z. Wu
On the number of spikes over finite fields 261

H.-G. Yeh and G.J. Chang
Centers and medians of distance-hereditary graphs 297

J. Zaks
The Beckman–Quarles theorem for rational spaces 311

J. Zaks
Erratum to "The Beckman–Quarles theorem for rational spaces" [Discrete Mathematics 265 (2003) 311–320] 321

X. Zhao and T. Wang
Some identities related to reciprocal functions 323

X. Zhu
Circular chromatic numbers of a class of distance graphs 337

Notes

V.E. Alekseev and V.V. Lozin
Independent sets of maximum weight in (p, q)-colorable graphs 351

B. Bollobás and A. Sarkar
Paths of length four 357

J. Grytczuk and W. Śliwa
Non-repetitive colorings of infinite sets 365

R.H. Jeurissen
On the determinants of divisor matrices 375

J. Li and Y. Ma
Complete-factors and (g, f)-factors 385

R. Li
Hamiltonicity of 3-connected quasi-claw-free graphs 393

X. Lv and J. Mao
Total domination and least domination in a tree 401

T. Nakamigawa
A partition problem on colored sets 405

J. Němeček and M. Klazar
A bijection between nonnegative words and sparse *abba*-free partitions 411

A. Tripathi and S. Vijay
A note on a theorem of Erdős & Gallai 417

Author index to volume 265 421

CONTENTS direct

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