

Contents

<i>Preface</i>	<i>Page</i> ix
<i>Farewell to Paul Erdős</i>	xi
<i>Toast to Paul Erdős</i>	xiii
<i>List of Contributors</i>	xvii
Paul Erdős: Some Unsolved Problems	1
Aharoni, R. and R. Diestel	
Menger's Theorem for a Countable Source Set	11
Ahlswede, R. and N. Cai	
On Extremal Set Partitions in Cartesian Product Spaces	23
Aigner, M. and R. Klimmek	
Matchings in Lattice Graphs and Hamming Graphs	33
Aigner, M. and E. Triesch	
Reconstructing a Graph from its Neighborhood Lists	51
Alon, N. and R. Yuster	
Threshold Functions for H -factors	63
Barbour, A.D. and S. Tavaré	
A Rate for the Erdős–Turán Law	71
Beck, J.	
Deterministic Graph Games and a Probabilistic Intuition	81
Bezrukov, S.L.	
On Oriented Embedding of the Binary Tree into the Hypercube	95
Biggs, N.L.	
Potential Theory on Distance-Regular Graphs	107
Bollobás, B. and S. Janson	
On the Length of the Longest Increasing Subsequence in a Random Permutation	121
Bollobás, B. and Y. Kohayakawa	
On Richardson's Model on the Hypercube	129
Cameron, P.J. and W.M. Kantor	
Random Permutations: Some Group-Theoretic Aspects	139
Chen, G. and R.H. Schelp	
Ramsey Problems with Bounded Degree Spread	145

Cooper, C., A. Frieze and M. Molloy	
Hamilton Cycles in Random Regular Digraphs	153
de Fraysseix, H., P. Ossona de Mendez and P. Rosenstiehl	
On Triangle Contact Graphs	165
Deuber, W.A. and W. Thumser	
A Combinatorial Approach to Complexity Theory via Ordinal Hierarchies	179
Deza, M. and V. Grishukhin	
Lattice Points of Cut Cones	193
Diestel, R. and I. Leader	
The Growth of Infinite Graphs: Boundedness and Finite Spreading	217
Dugdale, J.K. and A.J.W. Hilton	
Amalgamated Factorizations of Complete Graphs	223
Erdős, Paul, R.J. Faudree, C.C. Rousseau and R.H. Schelp	
Ramsey Size Linear Graphs	241
Erdős, Paul, A. Hajnal, M. Simonovits, V.T. Sós and E. Szemerédi	
Turán–Ramsey Theorems and K_p -Independence Numbers	253
Erdős, Paul, E. Makai and J. Pach	
Nearly Equal Distances in the Plane	283
Erdős, Paul, E.T. Ordman and Y. Zalcstein	
Clique Partitions of Chordal Graphs	291
Erdős, Péter L., Á. Seress and L.A. Székely	
On Intersecting Chains in Boolean Algebras	299
Füredi, Z., M.X. Goemans and D.J. Kleitman	
On the Maximum Number of Triangles in Wheel-Free Graphs	305
Gionfriddo, M., S. Milici and Zs. Tuza	
Blocking Sets in $SQS(2v)$	319
Häggkvist, R. and A. Johansson	
(1,2)-Factorizations of General Eulerian Nearly Regular Graphs	329
Häggkvist, R. and A. Thomason	
Oriented Hamilton Cycles in Oriented Graphs	339
Halin, R.	
Minimization Problems for Infinite n -Connected Graphs	355
Hammer, P.L. and A.K. Kelmans	
On Universal Threshold Graphs	375
Hindman, N. and I. Leader	
Image Partition Regularity of Matrices	393

Cambridge University Press

0521607663 - Combinatorics, Geometry and Probability: A Tribute to Paul Erdos

Edited by Bela Bollobas and Andrew Thomason

Table of Contents

[More information](#)*Contents*

vii

Hundack, C., H.J. Prömel and A. Steger	
Extremal Graph Problems for Graphs with a Color-Critical Vertex	421
Komjáth, P.	
A Note on $\omega_1 \rightarrow \omega_1$ Functions	435
Komlós, J. and E. Szemerédi	
Topological Cliques in Graphs	439
Linial, N.	
Local-Global Phenomena in Graphs	449
Luczak, T. and L. Pyber	
On Random Generation of the Symmetric Group	463
Mader, W.	
On Vertex-Edge-Critically n -Connected Graphs	471
Mathias, A.R.D.	
On a Conjecture of Erdős and Čudakov	487
McDiarmid, C.	
A Random Recolouring Method for Graphs and Hypergraphs	489
Mohar, B.	
Obstructions for the Disk and the Cylinder Embedding Extension Problems	493
Nešetřil, J. and P. Valtr	
A Ramsey-Type Theorem in the Plane	525
Temperley, H.N.V.	
The Enumeration of Self-Avoiding Walks and Domains on a Lattice	535
Tetali, P.	
An Extension of Foster's Network Theorem	541
Welsh, D.J.A.	
Randomised Approximation in the Tutte Plane	549
Wilf, H.S.	
On Crossing Numbers, and some Unsolved Problems	557