

CONTENTS

CONTENTS	5
PREFACE	9
ALON, N.: Paul Erdős and Probabilistic Reasoning	11
BENJAMINI, I.: Euclidean vs. Graph Metric	35
BOLLOBÁS, B. and RIORDAN, O.: The Phase Transition in the Erdős–Rényi Random Graph Process	59
BOURGAIN, J.: Around the Sum-product Phenomenon	111
BREUILLARD, E., GREEN, B. and TAO, T.: Small Doubling in Groups	129
DIAMOND, H. G.: Erdős and Multiplicative Number Theory	153
FÜREDI, Z. AND SIMONOVITS, M.: The History of Degenerate (Bipartite) Extremal Graph Problems	169
GOWERS, W. T.: Erdős and Arithmetic Progressions	265
GRAHAM, R. L.: Paul Erdős and Egyptian Fractions	289
GYÓRY, K.: Perfect Powers in Products with Consecutive Terms from Arithmetic Progressions, II	311
KOMJÁTH, P.: Erdős's Work on Infinite Graphs	325
KUNEN, K.: The Impact of Paul Erdős on Set Theory	347
MAULDIN, R. D.: Some Problems and Ideas of Erdős in Analysis and Geometry	365
MONTGOMERY, H. L.: L^2 Majorant Principles	377
NEŠETŘIL, J.: A Combinatorial Classic – Sparse Graphs with High Chromatic Number	383
NGUYEN, H. H. and VU, V. H.: Small Ball Probability, Inverse Theorems, and Applications	409
PACH, J.: The Beginnings of Geometric Graph Theory	465
PINTZ, J.: Paul Erdős and the Difference of Primes	485
POLLACK, P. and POMERANCE, C.: Paul Erdős and the Rise of Statistical Thinking in Elementary Number Theory	515

RÖDL, V. and SCHACHT, M.: Extremal Results in Random Graphs	535
SCHINZEL, A.: Erdős's Work on the Sum of Divisors Function and on Euler's Function	585
SHALEV, A.: Some Results and Problems in the Theory of Word Maps	611
TENENBAUM, G.: Some of Erdős' Unconventional Problems in Number Theory, Thirty-four Years Later	651
TOTIK, V.: Erdős on Polynomials	683
VÉRTESI, P.: Paul Erdős and Interpolation: Problems, Results, New Developments	711