

CONTENTS

LIST OF CONTRIBUTORS	vii
PREFACE	ix
COMMENT ON THE BIBLIOGRAPHY	xi
THE FOUR COLOR CONJECTURE AND OTHER GRAPHICAL DISEASES <i>Frank Harary</i>	1
SEVERAL PROOFS OF THE NUMBER OF LABELED 2-DIMENSIONAL TREES <i>Lowell W. Beineke and John W. Moon</i>	11
ON THE CHROMATIC NUMBER OF PERMUTATION GRAPHS <i>Gary Chartrand and Joseph B. Frechen</i>	21
THE EXPANDING UNICURSE <i>Blanche Descartes</i>	25
PROBLEMS AND RESULTS IN CHROMATIC GRAPH THEORY <i>P. Erdős</i>	27
FORBIDDEN SUBGRAPHS <i>Dennis Geller</i>	37
A PROOF TECHNIQUE IN GRAPH THEORY <i>Dennis Geller and Stephen Hedetniemi</i>	49
INDEPENDENCE AND COVERING NUMBERS OF LINE GRAPHS AND TOTAL GRAPHS <i>R. P. Gupta</i>	61
THE DECLINE AND FALL OF ZARANKIEWICZ'S THEOREM <i>Richard K. Guy</i>	63

ON THE INTERSECTION NUMBER OF A GRAPH <i>Frank Harary</i>	71
ON ENDOMORPHISMS OF GRAPHS AND THEIR HOMOMORPHIC IMAGES <i>Z Hedrlín</i>	73
COUNTEREXAMPLES IN THE THEORY OF WELL-QUASI-ORDERED SETS <i>T. A. Jenkyns and C. St. J. A. Nash-Williams</i>	87
ON THE EXISTENCE OF CERTAIN MINIMAL REGULAR n -SYSTEMS WITH GIVEN GIRTH <i>W. Kuich and N. Sauer</i>	93
RECONSTRUCTION OF UNICYCLIC GRAPHS <i>Bennet Manvel</i>	103
THE GROUP OF A GRAPH WHOSE ADJACENCY MATRIX HAS ALL DISTINCT EIGENVALUES <i>Abbe Mowshowitz</i>	109
EXTREMAL NONSEPARABLE GRAPHS OF DIAMETER 2 <i>U. S. R. Murty</i>	111
A CLASS OF STRONGLY REGULAR GRAPHS <i>E. A. Nordhaus</i>	119
THE EXPONENTIATION GROUP AS THE AUTOMORPHISM GROUP OF A GRAPH <i>Edgar M. Palmer</i>	125
REMARKS ON THE HEAWOOD CONJECTURE <i>Gerhard Ringel and J. W. T. Youngs</i>	133
INDIFFERENCE GRAPHS <i>Fred S. Roberts</i>	139
ENUMERATION OF EULER GRAPHS <i>Robert W. Robinson</i>	147

A GRAPH-THEORETICAL MODEL FOR PERIODIC DISCRETE STRUCTURES <i>James Turner</i>	155
EVEN AND ODD 4-COLORINGS <i>W. T. Tutte</i>	161
A THEOREM ON TAIT COLORINGS WITH AN APPLICATION TO THE GENERALIZED PETERSEN GRAPHS <i>Mark E. Watkins</i>	171
THE MÖBIUS FUNCTION IN COMBINATORIAL ANALYSIS AND CHROMATIC GRAPH THEORY <i>Herbert S. Wilf</i>	179
KEY-WORD INDEXED BIBLIOGRAPHY OF GRAPH THEORY <i>James Turner</i>	189