

5. B. GRUNDBAUM, *Convex Polytopes*, Interscience (Wiley), New York, 1967, pp. 48, 289, 431.
 6. P. J. FEDERICO, "Enumeration of polyhedra: the number of 9-hedra," *J. Combinatorial Theory*, v. 7, 1969, pp. 155-161.

81[10].—FRANK HARARY, Editor, *Proof Techniques in Graph Theory*, Academic Press, New York, 1969, xv + 330 pp., 25 cm. Price \$14.50.

This book contains the proceedings of the Second Ann Arbor Graph Theory Conference, held in February 1968, and comprises the following papers.

- F. Harary, The Four Color Conjecture and other Graphical Diseases.
 L. W. Beineke and J. W. Moon, Several Proofs of the Number of Labeled 2-Dimensional Trees.
 G. Chartrand and J. B. Frechen, On the Chromatic Number of Permutation Graphs.
 B. Descartes, The Expanding Unicurse. [A poem.]
 P. Erdős, Problems and Results in Chromatic Graph Theory.
 D. Geller, Forbidden Subgraphs.
 D. Geller and S. Hedetniemi, A Proof Technique in Graph Theory.
 R. P. Gupta, Independence and Covering Numbers of Line Graphs and Total Graphs. [Abstract only.]
 R. K. Guy, The Decline and Fall of Zarankiewicz's Theorem.
 F. Harary, On the Intersection Number of a Graph. [Taken from pages 19, 20 and 25 of F. Harary, *Graph Theory*, Addison-Wesley, Reading, Mass., 1969.]
 Z. Hedrlín, On Endomorphisms of Graphs and their Homomorphic Images.
 T. A. Jenkyns and C. St. J. A. Nash-Williams, Counterexamples in the Theory of Well-Quasi-Ordered Sets.
 W. Kuich and N. Sauer, On the Existence of Certain Minimal Regular n -Systems with Given Girth.
 B. Manvel, Reconstruction of Unicyclic Graphs.
 A. Mowshowitz, The Group of a Graph whose Adjacency Matrix has all Distinct Eigenvalues.
 U. S. R. Murty, Extremal Nonseparable Graphs of Diameter 2.
 E. A. Nordhaus, A Class of Strongly Regular Graphs.
 E. M. Palmer, The Exponentiation Group as the Automorphism Group of a Graph.
 G. Ringel and J. W. T. Youngs, Remarks on the Heawood Conjecture. [Comments on the same authors' solution of the Heawood map-coloring-problem, *Proc. Nat. Acad. Sci. U.S.A.*, v. 60, 1968, pp. 438-445.]
 F. S. Roberts, Indifference Graphs.
 R. W. Robinson, Enumeration of Euler Graphs. [The solution of problem 8 on F. Harary's third list of unsolved graphical enumeration problems—see *Graph Theory and Theoretical Physics*, edited by F. Harary, Academic Press, New York, 1967, p. 30.]
 J. Turner, A Graph-Theoretical Model for Periodic Discrete Structures. [This is a shortened version of a paper with the same title appearing in *J. Franklin Inst.*, v. 285, 1968, pp. 52-58.]
 W. T. Tutte, Even and Odd 4-Colorings.

M. E. Watkins, A Theorem on Tait Colorings with an Application to the Generalized Peterson Graphs. [This is a shortened version of a paper with the same title appearing in *J. Combinatorial Theory*, v. 6, 1969, pp. 152–164.]

H. S. Wilf, The Möbius Function in Combinatorial Analysis and Chromatic Graph Theory. [This is an expanded version of H. S. Wilf, “Hadamard determinants, Möbius functions, and the chromatic number of a graph,” *Bull. Amer. Math. Soc.*, v. 74, 1968, pp. 960–964.]

J. Turner, Key-Word Indexed Bibliography of Graph Theory.

This book is the seventh graph theory symposium proceedings to appear in recent years (see the list on page ix) and like its predecessors is a valuable collection for research workers in graph theory. (In spite of the title of the book, however, a number of the papers contain no proofs.) Probably the most valuable paper is Turner’s bibliography which occupies almost half the book. This contains some 1800 entries, arranged both by author and by key words, and is current up to July 1968. (Mention should be made of the more recent bibliography of N. Deo, *An Extensive English Language Bibliography on Graph Theory and its Applications*, Technical Report 32–1413, Jet Propulsion Laboratory, California Institute of Technology, October 15, 1969. This contains some 2200 entries, arranged by author, and is current to April 1969. Only English language articles are listed. Both Turner’s and Deo’s bibliographies are based on that of A. A. Zykov, in the *Theory of Graphs and Its Application*, edited by M. Fiedler, Academic Press, New York, 1964, although they appear to have been compiled independently. Finally, a long survey article on graph theoretic work in the Soviet Union will be published by J. Turner and W. H. Kautz in the *SIAM Rev.* in 1970. This is based on the Soviet entries in Turner’s bibliography in the book under review.)

The following misprints are noted.

p. 4, Theorem 7: for $(p - 1)k$ read $(p - 1)/2$.

p. 37, line 17: for $K_{\lfloor (n+1)/2 \rfloor, \lfloor (n+1)/2 \rfloor}$ read $K_{\lfloor (n+2)/2 \rfloor, \lfloor (n+2)/2 \rfloor}$.

p. 37, line 23: for $K_{\lfloor (n+1)/2 \rfloor, \lfloor (n+1)/2 \rfloor}$ read $K_{\lfloor (n+2)/2 \rfloor, \lfloor (n+2)/2 \rfloor}$.

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