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# Bibliography

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- [ACL00] W. Aiello, F. R. K. Chung, and L. Lu. A random graph model for massive graphs. In *ACM Symposium on Theory of Computing*, pages 171–180, 2000.
- [ACL01] W. Aiello, F. R. K. Chung, and L. Lu. Random evolution of massive graphs. In *IEEE Foundations of Computer Science*, pages 510–519, 2001.
- [AGU72] A. Aho, M. R. Garey, and J. D. Ullman. The transitive reduction of a directed graph. *SIAM J. Computing*, 1:131–137, 1972.
- [AH77] K. I. Appel and W. Haken. Every planar map is four colorable. II: Reducibility. *Illinois J. Math.*, 21:491–567, 1977.
- [AH86] K. I. Appel and W. Haken. The four color proof suffices. *Mathematical Intelligencer*, 8-1:10–20, 1986.
- [AHK77] K. I. Appel, W. Haken, and J. Koch. Every planar map is four colorable. I: Discharging. *Illinois J. Math.*, 21:429–490, 1977.
- [AHU74] A. Aho, J. Hopcroft, and J. Ullman. *The Design and Analysis of Computer Algorithms*. Addison-Wesley, Reading, MA, 1974.
- [Aig79] M. Aigner. *Combinatorial Theory*. Springer-Verlag, New York, 1979.
- [ALM<sup>+</sup>92] A. Arora, C. Lund, R. Motwani, M. Sudan, and M. Szegedy. Proof verification and the intractability of approximation problems. In *IEEE Symposium on Foundations of Computer Science*, pages 13–22, 1992.
- [AMO93] R. K. Ahuja, T. L. Magnanti, and J. B. Orlin. *Network Flows: Theory, Algorithms, and Applications*. Prentice-Hall, 1993.
- [AMU88] M. J. Atallah, G. K. Manacher, and J. Urrutia. Finding a minimum independent dominating set in a permutation graph. *Discrete Applied Mathematics*, 21:177–183, 1988.
- [And76] G. Andrews. *The Theory of Partitions*. Addison-Wesley, Reading, MA, 1976.
- [AO01] S. Ahlgren and K. Ono. Addition and counting: The arithmetic of partitions. *Notices of the AMS*, 48(9):978–984, 2001.
- [AP61] L. Auslander and S. Parter. On imbedding graphs in the sphere. *J. Mathematics and Mechanics*, 10:517–523, 1961.
- [Aro98] S. Arora. Polynomial time approximation schemes for the Euclidean traveling salesman and other geometric problems. *J. ACM*, 45(5):753–782, 1998.
- [BC67] M. Behzad and G. Chartrand. No graph is perfect. *Amer. Math. Monthly*, 74:962–963, 1967.
- [BC76] J. A. Bondy and V. Chvátal. A method in graph theory. *Discrete Math.*, 15:111–136, 1976.
- [BC87] W. W. R. Ball and H. S. M. Coxeter. *Mathematical Recreations and Essays*. Dover, New York, 1987.
- [BC02] W. Bosma and J.J. Cannon. The Magma computational algebra system. The Computational Algebra Group, University of Sydney, Australia, <http://www.maths.usyd.edu.au:8000/u/magma/index.html>, 2002.
- [Bei68] L. W. Beineke. Derived graphs and digraphs. In H. Sachs, H. Voss, and H. Walther, editors, *Beiträge zur Graphentheorie*, pages 17–33. Teubner, Leipzig, 1968.
- [Bel86] E. T. Bell. *Men of Mathematics*. Touchstone Books, reissue edition, 1986.
- [Ber57] C. Berge. Two theorems in graph theory. *Proc. Nat. Acad. Sci. USA*, 43:842–844, 1957.
- [BETT98] G. Di Battista, P. Eades, R. Tamassia, and I. Tollis. *Graph Drawing: Algorithms for Visualization of Graphs*. Prentice-Hall, Englewood Cliffs, NJ, 1998.
- [BH90] F. Buckley and F. Harary. *Distances in Graphs*. Addison-Wesley, Redwood City, CA, 1990.

- [BHK62] J. Battle, F. Harary, and Y. Kodama. Every planar graph with nine points has a nonplanar complement. *Bull. Amer. Math. Soc.*, 68:569–571, 1962.
- [Big74] N. L. Biggs. *Algebraic Graph Theory*. Cambridge University Press, London, 1974.
- [Bir12] G. D. Birkhoff. A determinant formula for the number of ways of coloring a map. *Ann. of Math.*, 14:42–46, 1912.
- [BK87] A. Brandstadt and D. Kratsch. On domination problems for permutation and other graphs. *Theoretical Computer Science*, 54:181–198, 1987.
- [BL46] G. D. Birkhoff and D. C. Lewis. Chromatic polynomials. *Trans. Amer. Math. Soc.*, 60:355–451, 1946.
- [BLW76] N. L. Biggs, E. K. Lloyd, and R. J. Wilson. *Graph Theory 1736–1936*. Clarendon Press, Oxford, 1976.
- [BM76] J. A. Bondy and U. S. R. Murty. *Graph Theory with Applications*. North-Holland, New York, 1976.
- [Bol78] B. Bollobás. *Extremal Graph Theory*. Academic Press, London, 1978.
- [Bol79] B. Bollobás. *Graph Theory*. Springer-Verlag, New York, 1979.
- [Bre79] D. Brelaz. New methods to color the vertices of a graph. *Comm. ACM*, 22:251–256, 1979.
- [Bro41] R. L. Brooks. On coloring the nodes of a network. *Proc. Cambridge Philos. Soc.*, 37:194–197, 1941.
- [Bro89] A. Broder. Generating random spanning trees. In *IEEE Foundations of Computer Science*, pages 442–447, 1989.
- [BW82] A. Björner and M. Wachs. Bruhat order of Coxeter groups and shellability. *Advances in Math.*, 43:87–100, 1982.
- [Can78a] E. R. Canfield. On a problem of Rota. *Advances in Math.*, 29:1–10, 1978.
- [Can78b] E. R. Canfield. On the location of the maximum stirling number(s) of the second kind. *Studies in Appl. Math.*, 59:83–93, 1978.
- [Cay89] A. Cayley. A theorem on trees. *Quart. J. Math.*, 23:376–378, 1889.
- [CDN89] C. J. Colbourn, R. P. J. Day, and L. D. Nel. Unranking and ranking spanning trees of a graph. *J. Algorithms*, 10:271–286, 1989.
- [CG70] D. G. Corneil and C. C. Gottlieb. An efficient algorithm for graph isomorphism. *J. ACM*, 17:51–64, 1970.
- [Cha68] G. Chartrand. On Hamiltonian line graphs. *Trans. Amer. Math. Soc.*, 134:559–566, 1968.
- [Cha73] P. J. Chase. Transposition graphs. *SIAM J. Computing*, 2:128–133, 1973.
- [Cha82] S. Chaiken. A combinatorial proof of the all-minors matrix tree theorem. *SIAM J. Alg. Disc. Methods*, 3:319–329, 1982.
- [Cha85] G. Chartrand. *Introductory Graph Theory*. Dover, New York, 1985.
- [Chr76] N. Christofides. Worst-case analysis of a new heuristic for the traveling salesman problem. In *Symposium on Algorithms and Complexity, Department of Computer Science, Carnegie-Mellon University*, April 1976.
- [CHT90] J. Cai, X. Han, and R. E. Tarjan. New solutions to four planar graph problems. Technical report, New York University, 1990.
- [CK94] A. Chetverin and F. Kramer. Oligonucleotide arrays: New concepts and possibilities. *Bio/Technology*, 12:1093–1099, 1994.
- [CLR87] F. Chung, T. Leighton, and A. Rosenberg. Embedding graphs in books: A layout problem with applications to VLSI design. *SIAM J. Algebraic and Discrete Methods*, 8:33–58, 1987.

- [CLRS01] T. Cormen, C. Leiserson, R. Rivest, and C. Stein. *Introduction to Algorithms, second edition*. MIT Press, Cambridge, MA, 2001.
- [CM78] M. Capobianco and J. Molluzzo. *Examples and Counterexamples in Graph Theory*. North-Holland, New York, 1978.
- [CRS<sup>+</sup>00] K. Cattell, F. Ruskey, J. Sawada, M. Serra, and R. Miers. Fast algorithms to generate necklaces, and irreducible polynomials over GF(2). *J. Algorithms*, 37(2):267–282, 2000.
- [dB46] N. G. de Bruijn. A combinatorial problem. *Koninklijke Nederlandse Akademie v. Wetenschappen*, 49:758–764, 1946.
- [Dij59] E. W. Dijkstra. A note on two problems in connection with graphs. *Numerische Math.*, 1:269–271, 1959.
- [Dil50] R. P. Dilworth. A decomposition theorem for partially ordered sets. *Ann. of Math.*, 51:161–166, 1950.
- [DM91] J. D. Dixon and B. Mortimer. *Permutation Groups*. Springer-Verlag, New York, 1991.
- [Ead84] P. Eades. A heuristic for graph drawing. *Congressus Numerantium*, 42:149–160, 1984.
- [Eco89] U. Eco. *Foucault's Pendulum*. Harcourt Brace Jovanovich, San Diego, 1989.
- [EG60] P. Erdős and T. Gallai. Graphs with prescribed degrees of vertices. *Mat. Lapok (Hungarian)*, 11:264–274, 1960.
- [Egg75] R. B. Eggleton. Graphic sequences and graphic polynomials. In A. Hajnal, editor, *Infinite and Finite Sets*, volume 1, pages 385–392. North-Holland, Amsterdam, 1975.
- [Ehr73] G. Ehrlich. Loopless algorithms for generating permutations, combinations, and other combinatorial configurations. *J. ACM*, 20:500–513, 1973.
- [EJ73] J. Edmonds and E. L. Johnson. Matching, Euler tours, and the Chinese postman. *Math. Programming*, 5:88–124, 1973.
- [EK72] J. Edmonds and R. M. Karp. Theoretical improvements in algorithmic efficiency for network flow problems. *J. ACM*, 19:248–264, 1972.
- [ER60] P. Erdős and A. Renyi. On the evolution of random graphs. *Publ. Math. Inst. Hungar. Acad. Sci.*, 5:17–61, 1960.
- [Erd61] P. Erdős. Graph theory and probability II. *Canad. J. Math.*, 13:346–352, 1961.
- [ES35] P. Erdős and G. Szekeres. A combinatorial problem in geometry. *Compositio Math.*, 2:464–470, 1935.
- [ES74] P. Erdős and J. Spencer. *Probabilistic Methods in Combinatorics*. Academic Press, New York, 1974.
- [ET75] S. Even and R. E. Tarjan. Network flow and testing graph connectivity. *SIAM J. Computing*, 4:507–518, 1975.
- [Eve79] S. Even. *Graph Algorithms*. Computer Science Press, Rockville, MD, 1979.
- [EW85] R. B. Eggleton and W. D. Wallis. Problem 1186: Solution i. *Mathematics Magazine*, 58(2):112–113, 1985.
- [FF62] L. R. Ford and D. R. Fulkerson. *Flows in Networks*. Princeton University Press, Princeton, NJ, 1962.
- [FHM65] D. R. Fulkerson, A. J. Hoffman, and M. H. McAndrew. Some properties of graphs with multiple edges. *Canad. J. Math.*, 17:166–177, 1965.
- [Fle74] H. Fleischner. The square of every two-connected graph is Hamiltonian. *J. Combinatorial Theory B*, 16:29–34, 1974.
- [Flo62] R. W. Floyd. Algorithm 97: Shortest path. *Comm. ACM*, 5:345, 1962.

- [Fre87] G. Frederickson. Fast algorithms for shortest paths in planar graphs. *SIAM J. Computing*, 16(6):1004–1022, 1987.
- [Fru39] R. Frucht. Herstellung von Graphen mit vorgegebener abstrakter Gruppe. *Compositio Math.*, 6:239–250, 1939.
- [FT87] M. Fredman and R. E. Tarjan. Fibonacci heaps and their uses in improved network optimization algorithms. *J. ACM*, 34(3):596–615, 1987.
- [Ful65] D. R. Fulkerson. Upsets in round robin tournaments. *Canad. J. Math.*, 17:957–969, 1965.
- [FZ82] D. Franzblau and D. Zeilberger. A bijective proof of the hook-length formula. *J. Algorithms*, 3:317–342, 1982.
- [Gal59] T. Gallai. Über extreme Punkt- und Kantenmengen. *Ann. Univ. Sci. Budapest, Eötvös Sect. Math.*, 2:133–138, 1959.
- [GAP99] The GAP Group, Aachen, St Andrews. *GAP – Groups, Algorithms, and Programming, Version 4.2*, 1999. (<http://www-gap.dcs.st-and.ac.uk/~gap>).
- [Gar78] M. Gardner. Puzzling over a problem solving matrix, cubes of many colors and three-dimensional dominos. *Scientific American*, 239:22–28, 1978.
- [Gas67] B. J. Gassner. Sorting by replacement selection. *Comm. ACM*, 10:89–93, 1967.
- [GGM58] H. Gupta, A. E. Gwyther, and J. C. P. Miller. *Tables of Partitions*, volume 4. Royal Society Mathematical Tables, London, 1958.
- [GH61] R. E. Gomery and T. C. Hu. Multiterminal network flows. *J. SIAM*, 9:551–570, 1961.
- [GH85] R. L. Graham and P. Hell. On the history of the minimum spanning tree problem. *Ann. History of Computing*, 7:43–57, 1985.
- [GI89] D. Gusfield and R. Irving. *The Stable Marriage Problem*. MIT Press, Cambridge, MA, 1989.
- [Gil58] E. N. Gilbert. Gray codes and paths on the  $n$ -cube. *Bell System Tech. J.*, 37:815–826, 1958.
- [GJ79] M. Garey and D. Johnson. *Computers and Intractability: a Guide to the Theory of NP-Completeness*. W. H. Freeman, San Francisco, 1979.
- [GKP89] R. Graham, D. Knuth, and O. Patashnik. *Concrete Mathematics*. Addison-Wesley, Reading, MA, 1989.
- [Gol66] S. W. Golomb. *Shift Register Sequences*. Holden-Day, San Francisco, 1966.
- [Goo46] I. J. Good. Normal recurring decimals. *J. London Math. Soc.*, 21:167–172, 1946.
- [Gou88] R. Gould. *Graph Theory*. Benjamin Cummings, Menlo Park, CA, 1988.
- [Gra53] F. Gray. Pulse code communication. United States Patent Number 2,632,058, March 17, 1953.
- [GS62] D. Gale and L. S. Shapley. College admissions and the stability of marriage. *Amer. Math. Monthly*, 69:9–14, 1962.
- [Gup66] R. P. Gupta. The chromatic index and the degree of a graph. *Notices of the Amer. Math. Soc.*, 13:66T–429, 1966.
- [Hak62] S. Hakimi. On the realizability of a set of integers as degrees of the vertices of a graph. *SIAM J. Appl. Math.*, 10:496–506, 1962.
- [Hal35] P. Hall. On representatives of subsets. *J. London Math. Soc.*, 10:26–30, 1935.
- [Har62] F. Harary. The maximum connectivity of a graph. *Proc. Nat. Acad. Sci. USA*, 48:1142–1146, 1962.
- [Har69] F. Harary. *Graph Theory*. Addison-Wesley, Reading, MA, 1969.

- [Hav55] V. Havel. A remark on the existence of finite graphs (Czech.). *Časopis Pest. Mat.*, 80:477–480, 1955.
- [Hea63] B. R. Heap. Permutations by interchanges. *Computer J.*, 6:293–294, 1963.
- [HHK<sup>+</sup>01] J. Hall, J. Hartline, A. Karlin, J. Saia, and J. Wilkes. On algorithms for efficient data migration. In *ACM-SIAM Symposium on Discrete Algorithms*, pages 620–629, 2001.
- [Hie73] C. Hierholzer. Ueber die Möglichkeit, einen Linienzug ohne Wiederholung und ohne Unterbrechnung zu umfahren. *Math. Ann.*, 6:30–42, 1873.
- [HK75] J. Hopcroft and R. Karp. An  $n^{5/2}$  algorithm for maximum matching in bipartite graphs. *SIAM J. Computing*, pages 225–231, 1975.
- [HLM<sup>+</sup>90] S. H. Hosseini, B. Litow, M. Malkawi, J. McPherson, and K. Vairavan. Analysis of a graph coloring based distributed load balancing algorithm. *J. Parallel and Distributed Computing*, 10(2):160–166, 1990.
- [HM99] G. Haggard and T. Mathies. The computation of chromatic polynomials. *Discrete Math.*, 199:227–231, 1999.
- [HNW65] F. Harary and C. J. A. Nash-Williams. On Eulerian and Hamiltonian graphs and line graphs. *Canad. Math. Bull.*, 8:701–709, 1965.
- [Hoc97] D. Hochbaum, editor. *Approximation Algorithms for NP-Hard Problems*. PWS Publishing Company, Boston, MA, 1997.
- [Hol81] I. Holyer. The NP-completeness of edge colorings. *SIAM J. Computing*, 10:718–720, 1981.
- [HP73] F. Harary and E. M. Palmer. *Graphical Enumeration*. Academic Press, New York, 1973.
- [HR73] F. Harary and R. Read. Is the null graph a pointless concept? In *Graphs and Combinatorics Conference*. Springer-Verlag, New York, 1973.
- [HS93] D. Holton and J. Sheehan. *The Petersen Graph*. Cambridge University Press, Cambridge, UK, 1993.
- [HT73] J. Hopcroft and R. E. Tarjan. Algorithm 447: Efficient algorithms for graph manipulation. *Comm. ACM*, 16:372–378, 1973.
- [HT74] J. Hopcroft and R. E. Tarjan. Efficient planarity testing. *J. ACM*, 21:549–568, 1974.
- [IK00] W. Imrich and S. Klavzar. *Product Graphs: Structure and Recognition*. Wiley-Interscience, New York, 2000.
- [Jac80] B. Jackson. Hamilton cycles in regular 2-connected graphs. *J. Combinatorial Theory B*, 29:27–46, 1980.
- [JL94] R. Jeurissen and W. Layton. Load balancing via graph coloring: An algorithm. *Computers and Mathematics with Applications*, 27:27–32, 1994.
- [JLR00] S. Janson, T. Luczak, and A. Rucinski. *Theory of Random Graphs*. Wiley Interscience, New York, 2000.
- [Joh63] S. M. Johnson. Generation of permutations by adjacent transpositions. *Math. Computation*, 17:282–285, 1963.
- [JS90] M. Jerrum and A. Sinclair. Fast uniform generation of regular graphs. *Theoretical Computer Science*, 73:91–100, 1990.
- [Kar72] R. M. Karp. Reducibility among combinatorial problems. In R. E. Miller and J. W. Thatcher, editors, *Complexity of Computer Computations*, pages 85–103. Plenum Press, New York, 1972.
- [Kir47] G. Kirchhoff. Über die Auflösung der Gleichungen, auf welche man bei der untersuchung der linearen verteilung galvanischer Ströme geführt wird. *Ann. Phys. Chem.*, 72:497–508, 1847.
- [KKT95] D. R. Karger, P. N. Klein, and R. E. Tarjan. A randomized linear-time algorithm to find minimum spanning trees. *J. ACM*, 42(2):321–328, 1995.

- [Kli82] P. Klingsberg. A Gray code for compositions. *J. Algorithms*, 3:41–44, 1982.
- [Knu67] D. E. Knuth. Oriented subtrees of an arc digraph. *J. Combinatorial Theory*, 3:309–314, 1967.
- [Knu70] D. E. Knuth. Permutations, matrices, and generalized young tableaux. *Pacific J. Math.*, 34:709–727, 1970.
- [Knu73a] D. E. Knuth. *Fundamental Algorithms*, volume 1 of *The Art of Computer Programming*. Addison-Wesley, Reading, MA, second edition, 1973.
- [Knu73b] D. E. Knuth. *Sorting and Searching*, volume 3 of *The Art of Computer Programming*. Addison-Wesley, Reading, MA, 1973.
- [Knu92] D. E. Knuth. Two notes on notation. *Amer. Math. Monthly*, 99:403–422, 1992.
- [Knu94] D. E. Knuth. *The Stanford GraphBase: A Platform for Combinatorial Computing*. ACM Press, New York, 1994.
- [Kon16] D. Konig. Uber graphen und ihre anwendung auf determinantentheorie und mengenlehre. *Math. Ann.*, 77:453–465, 1916.
- [Kri85] V. Krishnamurthy. *Combinatorics: Theory and Applications*. Affiliated East-West Press Private Limited, New Delhi, India, 1985.
- [KRRS94] P. Klein, S. Rao, M. Rauch, and S. Subramanian. Faster shortest-path algorithms for planar graphs. In *ACM Symposium on the Theory of Computing*, pages 27–37, 1994.
- [Kru56] J. B. Kruskal. On the shortest spanning subtree of a graph and the traveling salesman problem. *Proc. Amer. Math. Soc.*, 7:48–50, 1956.
- [KS96] D. R. Karger and C. Stein. A new approach to the minimum cut problem. *J. ACM*, 43(4):601–640, 1996.
- [KS99] D. L. Kreher and D. R. Stinson. *Combinatorial Algorithms: Generation, Enumeration, and Search*. CRC Press, Boca Raton, FL, 1999.
- [Kur30] K. Kuratowski. Sur le problème des courbes gauches en topologie. *Fund. Math.*, 15:217–283, 1930.
- [Kwa62] M. K. Kwan. Graphic programming using odd or even points. *Chinese Math.*, 1:273–277, 1962.
- [Lay76] R. Laye. A gray code for set partitions. *Information Processing Letters*, 5(6):171–173, 1976.
- [Lei92] F. T. Leighton. *Introduction to Parallel Algorithms and Architecture: Arrays, Trees and Hypercubes*. Morgan-Kaufmann, Boston, 1992.
- [Lev73] L. A. Levin. Universal searching problems. *Problems of Information Transmission*, 9:265–266, 1973.
- [Lin65] S. Lin. Computer solutions of the traveling salesman problem. *Bell System Tech. J.*, 44:2245–2269, 1965.
- [LLKS85] E. Lawler, J. K. Lenstra, A. H. G. Rinnooy Kan, and D. B. Shmoys. *The Traveling Salesman Problem*. John Wiley and Sons, New York, 1985.
- [LLS01] L. Lee, A. Lumsdaine, and J. Siek. *The Boost Graph Library User Guide and Reference Manual*. Addison Wesley Professional, Reading, MA, 2001.
- [LNS85] R. Lipton, S. North, and J. Sandberg. A method for drawing graphs. In *Proc. First ACM Symposium on Computational Geometry*, pages 153–160, 1985.
- [Lov68] L. Lovász. On chromatic number of finite set-systems. *Acta. Math. Acad. Sci. Hungar.*, 19:59–67, 1968.
- [Lov75] L. Lovász. Three short proofs in graph theory. *J. Combinatorial Theory B*, 19:111–113, 1975.
- [LP86] L. Lovász and M. D. Plummer. *Matching Theory*. North-Holland, Amsterdam, 1986.



- [Luc91] E. Lucas. *Récréations Mathématiques*. Cauthier-Villares, Paris, 1891.
- [Luc92] T. Luczak. Sparse random graphs with a given degree sequence. In A.M. Frieze and T. Luczak, editors, *Random Graphs*, volume 2, pages 165–182. Wiley, New York, 1992.
- [Luk80] E. M. Luks. Isomorphism of bounded valence can be tested in polynomial time. In *IEEE Symposium on Foundations of Computer Science*, pages 42–49, 1980.
- [Mac60] P. MacMahon. *Combinatory Analysis*. Chelsea Publishing, New York, 1960.
- [Mal88] S. M. Malitz. Genus  $g$  graphs have pagenumber  $O(g^{1/2})$ . In *IEEE Symposium on Foundations of Computer Science*, pages 458–468, 1988.
- [Man85a] H. Mannila. Measures of presortedness and optimal sorting algorithms. *IEEE Trans. Computers*, 34:318–325, 1985.
- [Man85b] B. Manvel. Extremely greedy coloring algorithms. In F. Harary and J. Maybee, editors, *Graphs and Applications*, pages 257–270. Wiley, New York, 1985.
- [Man89] U. Manber. *Introduction to Algorithms*. Addison-Wesley, Reading, MA, 1989.
- [McK90] B. McKay. Nauty user's guide. Technical Report TR-CS-90-02, Department of Computer Science, Australian National University, 1990.
- [Men27] K. Menger. Zur allgemeinen Kurventheorie. *Fund. Math.*, 10:95–115, 1927.
- [Mer73] G. H. J. Meredith. Regular  $n$ -valent  $n$ -connected nonhamiltonian non- $n$ -edge-colorable graphs. *J. Combinatorial Theory, Series B*, 14:55–60, 1973.
- [Mes83] B. E. Meserve. *Fundamental Concepts of Geometry*. Dover, New York, 1983.
- [Mit99] J. Mitchell. Guillotine subdivisions approximate polygonal subdivisions: a simple polynomial-time approximation scheme for geometric TSP,  $k$ -MST, and related problems. *SIAM J. Computing*, 28:1298–1309, 1999.
- [MMI72] D. W. Matula, G. Marble, and J. D. Isaacson. Graph coloring algorithms. In R. Read, editor, *Graph Theory and Computing*, pages 109–122. Academic Press, New York, 1972.
- [MN99] K. Mehlhorn and S. Naher. *The LEDA Platform of Combinatorial and Geometric Computing*. Cambridge University Press, Cambridge, UK, 1999.
- [MR95] M. Molloy and B. Reed. A critical point for random graphs with a given degree sequence. *Random Structures and Algorithms*, 6:161–180, 1995.
- [MR98] M. Molloy and B. Reed. The size of the largest component of a random graph on a fixed degree sequence. *Combinatorics, Probability and Computing*, 7:295–306, 1998.
- [MS80] J. I. Munro and H. Suwanda. Implicit data structures for fast search and update. *J. Computer and System Sciences*, 21:236–250, 1980.
- [Muk67] A. Mukhopadhyay. The square root of a graph. *J. Combinatorial Theory*, 2:290–295, 1967.
- [NW78] A. Nijenhuis and H. Wilf. *Combinatorial Algorithms*. Academic Press, New York, second edition, 1978.
- [OR81] R. J. Opsut and F. S. Roberts. On the fleet maintenance, mobile radio frequency, task assignment, and traffic phasing problems. In G. Chartrand, Y. Alavi, D. L. Goldsmith, L. Lesniak-Foster, and D. R. Lick, editors, *The Theory and Applications of Graphs*, pages 479–492. Wiley, New York, 1981.
- [Ore60] O. Ore. A note on Hamiltonian circuits. *Amer. Math. Monthly*, 67:55, 1960.
- [Pal85] E. M. Palmer. *Graphical Evolution: An Introduction to the Theory of Random Graphs*. Wiley-Interscience, New York, 1985.



- [Pev89] P.A. Pevzner. *l*-tuple DNA sequencing: Computer analysis. *J. Biomol. Struct. Dyn.*, 9:399–410, 1989.
- [Pr8] H. Prüfer. Neuer beweis eines Satzes über Permutationen. *Arch. Math. Phys.*, 27:742–744, 1918.
- [Pri57] R. C. Prim. Shortest connection networks and some generalizations. *Bell System Tech. J.*, 36:1389–1401, 1957.
- [Pro89] J. Propp. Some variants of Ferrers diagrams. *J. Combinatorial Theory A*, 52:98–128, 1989.
- [PS82] C. H. Papadimitriou and K. Steiglitz. *Combinatorial Optimization: Algorithms and Complexity*. Prentice-Hall, Englewood Cliffs, NJ, 1982.
- [Rea72] R. C. Read. The coding of various kinds of unlabeled trees. In R. C. Read, editor, *Graph Theory and Computing*, pages 153–182. Academic Press, New York, 1972.
- [Rob39] H. E. Robbins. A theorem on graphs with an application to a problem of traffic control. *Amer. Math. Monthly*, 46:281–283, 1939.
- [Ron84] C. Ronse. *Feedback Shift Registers*, volume 146. Lecture Notes in Computer Science, Springer-Verlag, Berlin, 1984.
- [Rot67] G. Rota. A generalization of Sperner's theorem. *J. of Combinatorial Theory*, 2, 1967.
- [Roy02] G. Royle. Combinatorial catalogues. <http://www.cs.uwa.edu.au/~gordon/data.html>, 2002.
- [RP97] T. Rus and S. V. Pemmaraju. Using graph coloring in an algebraic compiler. *Acta Informatica*, 34(3), 1997.
- [RS87] D. F. Rall and P. J. Slater. Generating all permutations by graphical derangements. Unpublished manuscript, 1987.
- [RS00] F. Ruskey and J. Sawada. A fast algorithm to generate unlabeled necklaces. In *Proceedings of the ACM-SIAM Symposium on Discrete Algorithms*, pages 256–262, Philadelphia, 2000.
- [RSL77] D. J. Rosenkrantz, R. E. Stearns, and P. M. Lewis. An analysis of several heuristics for the traveling salesman problem. *SIAM J. Computing*, 6:563–581, 1977.
- [RT81] E. Reingold and J. Tilford. Tidier drawings of trees. *IEEE Trans. Software Engineering*, 7:223–228, 1981.
- [RW97] R. Read and R. Wilson. *An Atlas of Graphs*. Oxford University Press, Oxford, UK, 1997.
- [Rys57] H. J. Ryser. Combinatorial properties of matrices of zeros and ones. *Canad. J. Math.*, 9:371–377, 1957.
- [Sab60] G. Sabidussi. Graph multiplication. *Math. Z.*, 72:446–457, 1960.
- [Sac62] H. Sachs. Über selbstkomplementäre Graphen. *Publ. Math. Debrecen*, 9:270–288, 1962.
- [Sav89] C. D. Savage. Gray code sequences of partitions. *J. Algorithms*, 10:577–595, 1989.
- [Sav97] C. D. Savage. A survey of combinatorial gray codes. *SIAM Review*, 39:605–629, 1997.
- [Sch61] C. Schensted. Longest increasing and decreasing subsequences. *Canadian J. Math.*, 13:179–191, 1961.
- [SD76] D. C. Schmidt and L. E. Druffel. A fast backtracking algorithm to test directed graphs for isomorphism using distance matrices. *J. ACM*, 23:433–445, 1976.
- [Sed77] R. Sedgewick. Permutation generation methods. *Computing Surveys*, 9:137–164, 1977.
- [SK86] T. L. Saaty and P. C. Kainen. *The Four-Color Problem*. Dover, New York, 1986.
- [Ski88] S. Skiena. Encroaching lists as a measure of presortedness. *BIT*, 28:775–784, 1988.
- [Ski90] S. Skiena. *Implementing Discrete Mathematics: Combinatorics and Graph Theory with Mathematica*. Addison-Wesley, Redwood City, CA, 1990.
- [Ski97] S. Skiena. *The Algorithm Design Manual*. Springer-Verlag, New York, 1997.

- [SR83] K. Supowit and E. Reingold. The complexity of drawing trees nicely. *Acta Informatica*, 18:377–392, 1983.
- [Sta71] R. Stanley. Theory and application of plane partitions I, II. *Studies in Applied Math.*, 50:167–188, 259–279, 1971.
- [Sta86] R. Stanley. *Enumerative Combinatorics*, volume 1. Wadsworth & Brooks/Cole, Monterey, CA, 1986.
- [SW86] D. Stanton and D. White. *Constructive Combinatorics*. Springer-Verlag, New York, 1986.
- [Sze83] G. Szekeres. *Distribution of Labeled Trees by Diameter*, volume 1036, pages 392–397. Springer-Verlag, New York, 1983.
- [Tai80] P. G. Tait. Remarks on the colouring of maps. *Proc. Royal Soc. Edinburgh*, 10:729, 1880.
- [Tar72] R. E. Tarjan. Depth-first search and linear graph algorithms. *SIAM J. Computing*, 1:146–160, 1972.
- [Tar75] R. E. Tarjan. Efficiency of a good but not linear set union algorithm. *J. ACM*, 22:215–225, 1975.
- [Tar83] R. E. Tarjan. *Data Structures and Network Algorithms*. Society for Industrial and Applied Mathematics, Philadelphia, 1983.
- [Tho56] C. B. Thompkins. Machine attacks on problems whose variables are permutations. In *Proc. Symposium Applied Mathematics*, page 203, Providence, RI, 1956. American Mathematical Society.
- [Tro62] H. F. Trotter. Perm (algorithm 115). *Comm. ACM*, 5:434–435, 1962.
- [Tur41] P. Turán. On an extremal problem in graph theory. *Mat. Fiz. Lapok*, 48:436–452, 1941.
- [Tut46] W. T. Tutte. On Hamilton circuits. *J. London Math. Soc.*, 21:98–101, 1946.
- [Tut61] W. T. Tutte. A theory of 3-connected graphs. *Indag. Math.*, 23:441–455, 1961.
- [Tut72] W. T. Tutte. Non-Hamiltonian planar maps. In R. Read, editor, *Graph Theory and Computing*, pages 295–301. Academic Press, New York, 1972.
- [Vau80] J. Vaucher. Pretty printing of trees. *Software Practice and Experience*, 10:553–561, 1980.
- [VEM93] W. Layton V. Ervin and J. Maubach. Some graph coloring problems in parallel numerical methods. In A. H. M. Levelt, editor, *Algorithms in Algebra*, pages 39–48. 1993.
- [Viz64] V. G. Vizing. On an estimate of the chromatic class of a  $p$ -graph (in Russian). *Diskret. Analiz*, 3:23–30, 1964.
- [vRW65] A. van Rooij and H. Wilf. The interchange graph of a finite graph. *Acta Math. Acad. Sci. Hungar.*, 16:263–269, 1965.
- [Wag98] S. Wagon. *Mathematica in Action*. Springer-Verlag, New York, 1998.
- [WH60] P. D. Whiting and J. A. Hillier. A method for finding the shortest route through a road network. *Operational Res. Quart.*, 11:37–40, 1960.
- [Whi32] H. Whitney. Congruent graphs and the connectivity of graphs. *Amer. J. Math.*, 54:150–168, 1932.
- [Wil85] R. J. Wilson. *Introduction to Graph Theory*. Longman, Essex, England, third edition, 1985.
- [Wil86] R. J. Wilson. An Eulerian trail through Königsberg. *J. Graph Theory*, 10:265–275, 1986.
- [Wil89] H. Wilf. *Combinatorial Algorithms: An Update*. Society for Industrial and Applied Mathematics, Philadelphia, 1989.
- [Wil90] H. Wilf. *generatingfunctionology*. Academic Press, New York, second edition, 1990.
- [Wil96] D. B. Wilson. Generating random spanning trees more quickly than the cover time. In *Proc. ACM Symp. on Theory of Computing*, pages 296–303, 1996.

- [Wol99] S. Wolfram. *The Mathematica Book*. Cambridge University Press, New York, fourth edition, 1999.
- [Wor84] N. Wormald. Generating random regular graphs. *J. Algorithms*, 5:247–280, 1984.
- [WS79] C. Wetherell and A. Shannon. Tidy drawing of trees. *IEEE Trans. Software Engineering*, 5:514–520, 1979.
- [YG80] M. Yannakakis and F. Gavril. Edge dominating sets in graphs. *SIAM J. Applied Math.*, 38(3):364–372, 1980.

