

Bibliography

- [1] M. AIGNER AND G. M. ZIEGLER, *Proofs from THE BOOK*, 2nd Edition, Springer Verlag, 2001.
- [2] H. ALT, C. KNAUER, G. ROTE AND S. WHITESIDES, The complexity of unfolding. *Towards a Theory of Geometric Graphs*, (ed. J. Pach), American Mathematical Society (2004), 1–13.
- [3] G. BAREQUET AND M. MOFFIE, The complexity of Jensen’s algorithm for counting polyominoes, *Proc. 1st Workshop on Analytic Algorithmics and Combinatorics*, New Orleans, LA, 2004, 161–169.
- [4] A. BERMAN AND J. PLEMMONS, *Nonnegative Matrices in the Mathematical Sciences*, Academic Press, New York, 1976.
- [5] T. BIEDL, E. D. DEMAINE, M. DEMAINE, S. LAZARD, A. LUBIW, J. O’Rourke, S. M. ROBBINS, I. STREINU, G. TOUSSAINT AND S. WHITESIDES, A note on reconfiguring tree linkages: trees can lock, *Discrete Applied Mathematics* **117**(1-3) (2002), 293–297.
- [6] T. BIEDL, E. D. DEMAINE, M. DEMAINE, S. LAZARD, A. LUBIW, J. O’Rourke, S. M. ROBBINS, I. STREINU, G. TOUSSAINT AND S. WHITESIDES, On reconfiguring tree linkages: trees can lock, *Proceedings of the 10th Canadian Conference on Computational Geometry (CCCG’98)*, Montréal, Québec, Canada (1998).
- [7] T. BIEDL, E. D. DEMAINE, C. DUNCAN, R. FLEISCHER AND S. KOBOUROV, Tight bounds on maximal and maximum matchings, *Discrete Mathematics* **285**(1-3) (2004), 7–15.
- [8] T. BIEDL, E. D. DEMAINE, S. LAZARD, S. M. ROBBINS, M. A. SOSS, Convexifying monotone polygons, *10th International Symposium on Algorithms and Computation (ISAAC’99)*, Lecture Notes in Computer Science, Vol. 1741, Chennai, India (1999), 415–424.
- [9] N. L. BIGGS, R. M. DAMERELL AND D. A. SANDS, Recursive families of graphs, *J. Combin. Theory, Ser. B* **12** (1972), 123–131.
- [10] N. G. DE BRUIJN, *Nieuw Archief voor Wiskunde* **2** (1954), 67, problems 17 and 18. Answers in *Wiskundige Opgaven met de Oplossingen* **20** (1955), 19–20.
- [11] N. G. DE BRUIJN, *Asymptotic Methods in Analysis*, North-Holland, third edition, 1970.

- [12] T. BRYLAWSKY AND J. OXLEY, The Tutte polynomial and its applications, in N. White (ed.), *Matroid Applications*, Encyclopedia of Mathematics and its Applications **40**, Cambridge Univ. Press, Cambridge (1992), 123–225.
- [13] N. CALKIN, C. MERINO, S. NOBLE AND M. NOY, Improved bounds for the number of forests and acyclic orientations in the square lattice, *Electron. J. Combin.* **10** (2003) #R4.
- [14] M. CHROBAK, M. T. GOODRICH AND R. TAMASSIA, Convex drawings of graphs in two and three dimensions (preliminary version), *Proceedings of the Twelfth Annual Symposium on Computational Geometry* (1996), 319–328.
- [15] F. CHUNG AND S.-T. YAU, Coverings, heat kernels and spanning trees, *Electronic Journal of Combinatorics* **6** (1999), #R12, 21 pp.
- [16] R. CONNELLY, E. DEMAINE AND G. ROTE, Straightening polygonal arcs and convexifying polygonal cycles, *Discrete & Computational Geometry* **30**(2) (2003), 205–239.
- [17] R. CONNELLY, E. D. DEMAINE AND G. ROTE, Infinitesimally locked self-touching linkages with applications to locked trees, *Physical Knots: Knotting, Linking, and Folding Geometric Objects in \mathbb{R}^3* , (eds. J. A. Calvo, K. C. Millett, E. J. Rawdon), Contemporary Mathematics **304**, American Mathematical Society (2002), 287–311.
- [18] A.R. CONWAY, Enumerating 2D percolation series by the finite-lattice method: Theory *J. Physics, A: Mathematical and General*, **28** (1995), 335–349.
- [19] A.R. CONWAY AND A.J. GUTTMANN, On two-dimensional percolation, *J. Physics, A: Mathematical and General* **28** (1995), 891–904.
- [20] H. CRAPO AND W. WHITELEY, Statics of frameworks and motions of panel structures, a projective geometric introduction, *Structural Topology* **6** (1982), 43–82.
- [21] H. CRAPO AND W. WHITELEY, Plane self stresses and projected polyhedra I: the basic pattern, *Structural Topology* **20** (1993), 55–78.
- [22] H. CRAPO AND W. WHITELEY, Spaces of stresses, projections and parallel drawings for spherical polyhedra, *Contributions to Algebra and Geometry* **35**(2) (1994), 259–281.
- [23] E. D. DEMAINE, Folding and unfolding linkages, paper, and polyhedra, *Revised Papers from the Japan Conference on Discrete and Computational Geometry*, (eds. J. Akiyama, M. Kano, M. Urabe), JCDCG 2000, *Lecture Notes in Computer Science* **2098**, Springer-Verlag, 2001, 113–124.
- [24] E. D. DEMAINE, J. S. B. MITCHELL, J. O’ROURKE, The Open Problems Project, problem 37, 2006.
- [25] P. EADES AND P. GARVAN, Drawing stressed planar graphs in three dimensions, *Proceedings of the Symposium on Graph Drawing, GD’95, Passau, Germany, September 20–22*, edited by F. J. Brandenburg, *Lecture Notes in Computer Science*, Springer-Verlag, **1027** (1996), 212–223.
- [26] L. FEJES TOTH AND A. HEPPE, Über stabile Körpersysteme, *Compositio Mathematica* **15**(2) (1963), 119–126.

- [27] R. FOURER, D. M. GAY, B. W. KERNIGHAN, *AMPL, a Modeling Language for Mathematical Programming*, Duxbury Press/Brooks/Cole Publishing Company, 2002.
- [28] S.W. GOLOMB, *Polyominoes*, 2nd ed., Princeton University Press, 1994.
- [29] P. HILTON AND J. PEDERSON, Catalan Numbers, their generalization, and their uses, *Math. Intelligencer* **13**(2) (1991), 64–75.
- [30] R. A. HORN AND C. R. JOHNSON, *Matrix Analysis*, Cambridge University Press, 1985.
- [31] S. JANSON, T. LUCZAK AND A. RUCIŃSKI, *Random Graphs*, Wiley-Interscience Series in Discrete Mathematics and Optimization, 2000.
- [32] I. JENSEN, Enumerations of lattice animals and trees, *J. of Statistical Physics*, **102** (2001), 865–881.
- [33] I. JENSEN, Counting polyominoes: A parallel implementation for cluster computing, *Lecture Notes in Computer Science*, **2659** (2003), 203–212.
- [34] D. A. KLARNER, Cell growth problems, *Canad. J. Math.* **19** (1967), 851–863.
- [35] D.A. KLARNER, Polyominoes, *Handbook of Discrete and Computational Geometry* (J.E. Goodman and J. O'Rourke, eds.), CRC Press (1997), Ch. 12, 225–240.
- [36] D.E. KNUTH, Programs POLYNUM and POLYSLAVE,
<http://sunburn.stanford.edu/~knuth/programs.html#polyominoes>
- [37] D.L. KREHER AND D.R. STINSON, *Combinatorial Algorithms, Generation, Enumeration and Search* (CAGES), CRC Press, 1998.
- [38] Y. KUSAKARI, M. SATO AND T. NISHIZEKI, Planar reconfiguration of monotone trees, *IEICE Trans. Fundamentals*, Vol. E83-A, **5** (2002).
- [39] B. MCKAY, Spanning trees in regular graphs, *Eur. J. Combinatorics* **4** (1983), 149–160.
- [40] R. MERRIS, Laplacian matrices of graphs: a survey, *Second Conference of the International Linear Algebra Society*, Lisbon (1992); *Linear Algebra Applications*, 197/198 (1994), 143–176.
- [41] T. MOTZKIN, Relations between hypersurface cross ratios, and a combinatorial formula for partitions of a polygon, for permanent preponderance, and for non-associative products, *Bull. American Mathematical Society*, **54** (1948), 352–360.
- [42] T. NISHIZEKI AND I. BAYBARS, Lower bounds on the cardinality of the maximum matching of planar graphs, *Discrete Mathematics* **28**(3) (1979), 255–267.
- [43] M. NOY AND A. RIBÓ, Recursively constructible families of graphs, *Advances in Applied Mathematics* **32** (2004), 350–363.
- [44] S. ONN AND B. STURMFELS, A quantitative Steinitz's theorem, *Beiträge zur Algebra und Geometrie*, **35** (1994), 125–129.

- [45] J. O'ROURKE, Folding and unfolding in computational geometry, *Revised Papers from the Japan Conference on Discrete and Computational Geometry*, (eds. J. Akiyama, M. Kano, M. Urabe), JCDCG '98, *Lecture Notes Comput. Sci.* **1763**, Springer-Verlag, Berlin, 2000, 258–266.
- [46] JÁNOS PACH AND GÉZA TÓTH, Monotone Drawings of Planar Graphs, *Lecture Notes in Computer Science*, Vol. 2518 (2002), 647–653.
- [47] B. M. I RANDS AND D. J. A. WELSH, Animals, trees and renewal sequences, *IMA J. Appl. Math.* **27** (1981), 1–17; Corrigendum, **28** (1982), 107.
- [48] J. RICHTER-GEBERT, *Realization Spaces of Polytopes*, Lecture Notes in Mathematics **1643**, Springer-Verlag Berlin Heidelberg, 1996.
- [49] R. SHROCK AND F. Y. WU, Spanning trees on graphs and lattices in d dimensions, *J. Physics, A: Mathematical and General* **33** (2000), 3881–3902.
- [50] J. SNOEYINK AND J. STOLFI, Objects that cannot be taken apart with two hands, *Proceedings of the Ninth Annual Symposium on Computational Geometry* (1993), 247–256.
- [51] R.P. STANLEY, *Enumerative Combinatorics*, Vol. 2, Cambridge Studies in Advanced Mathematics, 1999.
- [52] E. STEINITZ, Polyeder und Raumeinteilungen, *Encyclopädie der Mathematischen Wissenschaften*, Vol. 3 (Geometrie), Part 3AB12 (1922), 1–139.
- [53] E. STEINITZ AND H. RADEMACHER, *Vorlesungen über die Theorie der Polyeder*, Springer Verlag, Berlin, 1934; reprint, Springer Verlag, 1976.
- [54] I. STREINU, A combinatorial approach to planar non-colliding robot arm motion planning, *Proceedings of the 41st Annual Symposium on Foundations of Computer Science* (Redondo Beach, California), IEEE Computer Society Press, Washington (2000), 442–453.
- [55] D. J. A. WELSH, *Complexity: Knots, Colourings and Counting*, Cambridge Univ. Press, Cambridge, 1993.
- [56] W. WHITELEY, Motions and stresses of projected polyhedra, *Structural Topology* **7** (1982), 13–38.
- [57] F. Y. WU, Number of spanning trees on a lattice, *J. Phys. A: Math. Gen.* **10** (1977), L113–115.