

LITERATÚRA¹

- *Aho, A. V.—Hopcroft, J. E.—Ullman, J. D.: The Design and Analysis of Computer Algorithms. Addison—Wesley, Reading, MA 1974. (Ruský preklad: Moskva 1979.)
- Altshuler, A.: The Mani—Walkup spherical counterexamples to the W_r -path conjecture are not polytopal. Math. Operations Res. 10, 1985, s. 158 až 159.
- *Arthanari, T. S.—Dodge, Y.: Mathematical Programming in Statistics. Wiley, New York 1981.
- *Ašmanov, C. A.: Linejnoje programmirovanije. Nauka, Moskva 1981.
- Austreicher, K. M.: Analysis of a modified Karmarkar algorithm for linear programming. Yale School of Organization and Management working paper, 1985, Series B 84.
- Avis, D.—Chvátal, V.: Notes on Bland's pivoting rule. Math. Programming Study, 8, 1978, s. 24 až 34.
- Bartels, R. H.—Golub, G. H.: The simplex method of linear programming using LU decomposition. Comm. ACM 12, 1969, s. 266 až 268.
- Beale, E. M. L.: An alternative method for linear programming. Proc. Cambridge Philos. Society 50, 1954, s. 513 až 523.
- Beale, E. M. L.: Cycling in the dual simplex algorithm. Naval Res. Logistics Quart. 2, 1955, s. 269 až 275.
- Ben-Israel, A.—Charnes, A.: An explicit solution of a special class of linear programming problems. Operations Res. 16, 1968, s. 1166 až 1175.
- *Bican, L.: Lineární algebra. SNTL, Praha 1979.
- Bland, R. G.: New finite pivoting rules for the simplex method. Math. Operations Res. 2, 1977, s. 103 až 107.
- Bland, R. G.—Goldfarb, D.—Todd, M. J.: The ellipsoid method: A survey. Operations Research 29, 1981, s. 1039 až 1091.
- *Borgwardt, K. H.: The simplex method: A probabilistic analysis. Springer, Berlin 1987.
- *Busacker, R. G.—Saaty, T. L.: Finite graphs and networks. McGraw—Hill, New York 1965. (Ruský preklad: Moskva 1974).
- Dantzig, G. B.: Programming of interdependent activities II, Mathematical model. Econometrica 17, 1949, s. 200 až 211.
- Dantzig, G. B.: Maximization of a linear function of variables subject to linear inequalities. In: Activity Analysis of Production and Allocation (T. C. Koopmans ed.). Wiley, New York 1951, s. 339 až 347.
- Dantzig, G. B. a): Application of the simplex method to a transportation problem. In: Activity Analysis of Production and Allocation (T. C. Koopmans, ed.). Wiley, New York 1951, s. 359 až 373.

¹ Hviezdičkou sú označené knihy.

- Dantzig, G. B.—Orchard-Hays, W.: The product form for the inverse in the simplex method. *Mathematical Tables and Other Aids for Computation* 8, 1954, s. 64 až 67.
- Dantzig, G. B.: Upper bounds, secondary constraints, and block triangularity in linear programming. *Econometrica* 23, 1955, s. 174 až 183.
- Dantzig, G. B.—Orden, A.—Wolfe, P.: The generalized simplex method for maximizing a linear form under linear inequality restraints. *Pacific J. Math.* 5, 1955, s. 183 až 195.
- Dantzig, G. B.—Ford, L. R.—Fulkerson, D. R.: A primal-dual algorithm for linear programs. In: *Linear Inequalities and Related Systems* (Kuhn, H. W.—Tucker, A.W., eds.), Princeton University Press, Princeton, N. J. 1956, s. 171 až 181.
- Dantzig, G. B.—Wolfe, P.: The decomposition principle for linear programs. *Operations Res.* 8, 1960, s. 101 až 111.
- *Dantzig, G. B.: *Linear Programming and Extensions*. Princeton University Press, Princeton, New Jersey 1963. (Slovenský preklad: SVTL, Bratislava 1966.)
- Dantzig, G. B.—Vanslyke, R. M.: Generalized upper bounding techniques. *Computer System Sci.* 1, 1967, 213 až 216.
- Dantzig, G. B.: Reminiscences about the origins of linear programming In: A. Bachem et al. (eds.) *Mathematical Programming. The State of the Art*. Springer, Berlin 1983, s. 78 až 86.
- *Derigs, U.: *Programming in Networks and Graphs*. Springer, Berlin 1988.
- Dickson, J. C.—Frederick, F. P.: A decision rule for improved efficiency in solving linear programming problems with the simplex algorithm. *Communications ACM* 3, 1960, s. 509 až 512.
- *Dinkelbach, W.: *Sensitivitätsanalysen und parametrische Programmierung*. Springer, Berlin 1969, (Slovenský preklad: Bratislava 1973.)
- Dupačová, J.: *Stochastické programování. Dočasná vysokoškolská učebnice*. MŠ ČSR, Čs. redakce UN MON. Praha, 1986.
- Edmonds, J.—Karp, R. M.: Theoretical improvements in algorithmic efficiency for network flow problems. In: *Combinatorial structures and their applications*. Gordon and Breach, New York 1970, s. 93 až 96 (abstract); *J. ACM* 19, 1972, s. 248 až 264.
- Egerváry, E.: *Matrixok kombinatorius tulajdonságairól*. *Matematikai és Fizikai Lapok* 38, 1931, s. 16 až 28.
- *Elster, K. H. et al.: *Einführung in die nichtlineare Optimierung*. Teubner Verlag, Leipzig 1977. (Ruský preklad: Moskva 1985.)
- Farkas, J.: *Theorie der einfachen Ungleichungen*. *J. Reine Angew. Math.* 124, 1902, s. 1 až 27.
- Ford, L. R.—Fulkerson, D. R.: Maximal flow through a network. *Canad. J. Math.* 8, 1956, s. 399 až 404.
- *Ford, L. R.—Fulkerson, D. R.: A simple algorithm for finding maximal network flows and an application to the Hitchcock problem. *Canadian J. Math.* 9, 1957, s. 210 až 218.
- Ford, L. R.—Fulkerson, D. R.: *Flows in networks*. Princeton U. Press, Princeton 1962 (Ruský preklad: Moskva 1966.)
- Forrest, J. J. H.—Tomlin, J. A.: Updating triangular factors of the basis maintain sparsity in the product form simplex method. *Math. Programming* 2, 1972, s. 263 až 278.
- Fourier, J. B. J.: *Solution d'une question particulière du calcul des inégalités*. *Nouveau Bulletin des Sciences par la Société philomathique de Paris*, 1826, s. 99 až 100.
- Fourier, J. B. J.: *Oeuvres*. Gauthier—Villards, Paris 1888.
- Frieze, A. M.: Bottleneck linear programming. *Operations Res. Quart.* 26, 1975, s. 871 až 874.
- *Garey, M. R.—Johnson, D. S.: *Computers and Intractability*. W. H. Freeman and Company, San Francisco 1979. (Ruský preklad: Mir, Moskva 1982.)
- *Gass, S. I.: *Linear programming: Methods and applications* (2nd ed.). McGraw—Hill, New York 1964. (Slovenský preklad: Bratislava 1972.)

- *Gass, S. I.: Lineárne programovanie. Metódy a aplikácie. SVTL Bratislava 1965.
- Goldberg, A. V.—Tarjan, R. E.: A new approach to the maximum flow problem. In: Proc. 18th Ann. ACM Symp. Theory Computing. ACM, New York 1986, s. 136 až 146.
- Goldfarb, D.—Sit, W. Y.: Worst case behavior of the steepest edge simplex method. *Discrete Appl. Math.* 1, 1979, s. 277 až 285.
- Goldman, A. J.: Resolution and separation theorems for polyhedral convex sets. In: *Linear Inequalities and Related Systems*. (Kuhn H. W., Tucker A. W., eds.) Princeton U. Press, Princeton 1956, s. 41 až 51. (Ruský preklad: Moskva 1959.)
- Goldman, A. J.—Tucker, A. W.: Theory of linear programming. In: *Linear Inequalities and Related Systems*. (Kuhn H. W., Tucker A. W., eds.), Princeton University Press, Princeton 1956, s. 53 až 97. (Ruský preklad: Moskva 1959.)
- *Golštejn, E. G.—Judin, D. B.: Novyje napravlenija v linejnom programmirovanii. *Sovjet-skoe Radio, Moskva* 1966.
- *Golštejn, E. G.—Judin, D. B.: Zadači linejnogo programmirovanija transportnogo tipa. *Nauka, Moskva* 1969.
- Gordan, P.: Ueber die Auflösung linearer Gleichungen mit reellen Coefficienten. *Mathematische Annalen* 6, 1873, s. 23 až 28.
- *Grötschel, M.—Lovász, L.—Schrijver, A.: *Geometric Algorithms and Combinatorial Optimization*. Springer—Verlag, Berlin 1988.
- *Guddat, J. et al.: Multiobjective and stochastic optimization based on parametric optimization. *Mathematical Research, Band 26, Akademie—Verlag, Berlin* 1985.
- *Hamala, M.: *Nelineárne programovanie*. Alfa, Bratislava 1. vyd. 1972, 2. vyd. 1976.
- Hitchcock, F. L.: The distribution of a product from several sources to numerous localities. *J. Math. Phys. Mass. Inst. Tech.* 20, 1941, s. 224 až 230.
- Ho, J. K.—Loute, E.: An advanced implementation of the Datzig—Wolfe decomposition algorithm for linear programming. *Math. Programming* 20, 1981, s. 303 až 326.
- Hoffman, A. J.: Cycling in the simplex algorithm. *Nat. Bur. Standards, Report 2974, 1953, Washington, D. C.*
- Hoffman, A.—Mannos, M.—Sokolowsky, D.—Wiegmann, N.: Computational experience in solving linear programs. *J. Soc. Industrial Appl. Math.* 1, 1953, s. 17 až 33.
- *Hu, T. C.: *Integer Programming and Network Flows*. Addison—Wesley, Reading, Mass. 1969. (Ruský preklad: Moskva 1974.)
- Chačijan, L. G.: Polinomialnyj algoritm v linejnom programmirovanii. *Dokl. AN SSSR*, 244, 1979, s. 1093 až 1096.
- Chačijan, L. G.: Polinomialnyje algoritmy v linejnom programmirovanii. *Žurnal vyčislitelnoj matematiki i matematičeskoj fiziki* 20, 1980, s. 51 až 68.
- Chandrasekaran, R.—Kabadi, S. N.—Murty, K. G.: Some NP-complete problems in linear programming. *Operations Research Letters* 1, 1981—82, s. 101 až 104.
- Charnes, A.: Optimality and degeneracy in linear programming. *Econometrica* 20, 1952, s. 160 až 170.
- Charnes, A.—Granot, F.—Phillips, F.: An algorithm for solving interval linear programming problems. *Operations Res.* 25, 1977, s. 688 až 695.
- Chobot, M.—Turnovec, F.: O jednom ekonomickom parodoxe v modeloch lineárneho programovania. *Ekon.-mat. obzor* 10, 1974, s. 374 až 386.
- *Chobot, M.—Turnovcová, A.: *Modely rozhodovania v konfliktných situáciach a za neurčitosti*. ALFA, Bratislava 1980.
- Church, A.: An unsolvable problem of elementary number theory. *Am. J. Math.* 58, 1936, s. 345 až 363.
- *Chvátal, V.: *Linear Programming*. Freeman and Company, New York 1983.

- Jeroslow, R. G.: The simplex algorithm with the pivot rule of maximizing criterion improvement. *Discrete Math.*, 4, 1973, s. 367 až 377.
- *Judin, D. B.—Goľštejn, E. G.: Linejnoe programmirovanije (Teorija i konečnye metody). Gos. izd. fiz.-mat. lit., Moskva 1963.
- Judin, D. B.—Goľštejn, E. G.: Zadači i metody linejnogo programmirovanija. Sovjetskoe radio, Moskva 1964.
- *Kall, P.: *Mathematische Methoden des Operations Research*. Teubner, Stuttgart 1976.
- Kantorovič, L. V.: *Matematičeskije metody v organizacii i planirovanii proizvodstva*. Leningrad. Gosud. Universitet 1939 (67 strán).
- Karlin, S.: *Mathematical methods and theory in games, programming and economics*. Pergamon Press, London 1959. (Ruský preklad: Moskva 1964.)
- Karmarkar, N.: A new polynomial time algorithm for linear programming. *Combinatorica* 4, 1984, s. 373 až 395.
- Klee, V.—Walkup, D. W.: The d-step conjecture for polyhedra of dimension $d < 6$. *Acta Math.* (Uppsala) 117, 1967, s. 53 až 78.
- Klee, V.—Minty, G. J.: How good is the simplex algorithm? In: (Shisha O., ed.) *Proc. 3rd Symposium Inequalities*, Academic Press, New York, 1972, s. 159 až 175.
- Klein, M.: A primal method for minimal cost flows. *Management Sci.*, 14, 1967, s. 205 až 220.
- König, D.: Graphok és matrixok. *Matematikai és Fizikai Lapok* 38, 1931, s. 116 až 119.
- *Korbut, A. A.—Finkeľštejn, Ju. Ju.: Diskretnoje programmirovanije. Nauka, Moskva 1969. (Slovenský preklad: Bratislava 1973.)
- Kotiah, T. C. T.—Steinberg, D. I.: On the possibility of cycling with the simplex method. *Operations Res.* 26, 1978, s. 374 až 376.
- *Kučera, L.: *Kombinatorické algoritmy*. SNTL, Praha 1983.
- Kuhn, H. W.: The Hungarian method for the assignment problem. *Naval Res. Logistics Quart.* 2, 1955, s. 83 až 97.
- Kuhn, H. W.—Quandt, R. E.: An experimental study of the simplex method. In: Metropolis et al. eds. *Experimental Arithmetic, High-Speed Computing and Mathematics*. Amer. Math. Soc., Providence, R. I., 1963, s. 107 až 124.
- Kuhn, H. W.—Tucker, A. W. (eds.): *Linear inequalities and Related Systems*. Princeton University Press, Princeton 1956. (Ruský preklad: Moskva 1959.)
- Larman, D.: Paths on polytopes. *Proc. London Math. Soc.* 20, 1970, s. 161 až 178.
- *Laščiak, A. et al.: *Optimálne programovanie*. Alfa, Bratislava 1983.
- Lemke, C. E.: The dual method of solving the linear programming problem. *Naval Res. Logistics Quart.* 1. 1954, s. 36 až 47.
- Levin, A. Ju.: Ob odnom algoritme minimalizacii vypuklych funkcii. *Dokl. AN SSSR*, 160, 1965, s. 1244 až 1247.
- *Lommatzsch, K. (ed.): *Anwendungen der linearen parametrischen Optimierung*, Akademie—Verlag, Berlin 1979.
- *Luenberger, D. G.: *Optimization by vector space methods*. Wiley, New York 1969.
- *Luenberger, D. G.: *Introduction to Linear and Nonlinear Programming*. Addison—Wesley, Reading, Mass. 1973.
- Mangasarian, O. L.: Uniqueness of solution in linear programming. *Linear Algebra and its Applications* 25, 1979, s. 151 až 162.
- Mangasarian, O. L.—De Leone, R.: Parallel gradient projection successive overrelaxation for symmetric linear complementarity problems and linear programs. University of Wisconsin 1986, Computer Sciences Technical Report No. 659.
- *Maňas, M.: *Teorie her a optimální rozhodování*. SNTL, Praha 1974.
- *Maňas, M.: *Optimalizační metody*. SNTL, Praha 1979.

- Marshal, K. T.—Suurballe, J. W.: A note on cycling in the simplex method. *Naval Res. Logistics Quart.* 16, 1969, s. 121 až 127.
- Mc Call, E. H.: Performance results of the simplex algorithm for a set of real-world linear programming models. *Comm. ACM* 25, 1982, s. 207 až 213.
- McMullen, P.: The maximum number of faces of a convex polytope. *Mathematika* 17, 1970, s. 179 až 184.
- *Murtagh, B. A.: *Advanced linear programming: Computation and practice*. Mc-Graw—Hill, New York 1981. (Ruský překlad: Moskva 1984.)
- Murty, K. G.: A fundamental problem in linear inequalities with applications to the traveling salesman problem. *Math. Programming* 2, 1972, s. 296 až 308.
- Murty, G. K.: Computational complexity of parametric linear programming. *Math. Programming*, 19, 1980, s. 213 až 219.
- *Murty, K. G.: *Linear Programming*. Wiley, New York 1983.
- Nordbotten, S.: Allocation in stratified sampling by means of linear programming. *Skand. Aktuarietidskrift* 39, 1965, s. 1 až 6.
- *Nožička, F.—Guddat, J.—Hollatz, H.: *Theorie der linearen Optimierung*. Akademie—Verlag, Berlin 1972.
- *Nožička, F. et al.: *Theorie der linearen parametrischen Optimierung*. Akademie—Verlag, Berlin 1974.
- Orden, A.: The transshipment problem. *Management Sci.* 3, 1956, s. 276 až 285.
- *Orchard-Hays, W.: *Advanced Linear Programming Computing Techniques*. McGraw—Hill, New York 1968.
- *Papadimitriou, C. H.—Steiglitz, K.: *Combinatorial Optimization: Algorithms and Complexity*. Prentice Hall, Englewood Cliffs, N. J. 1982. (Ruský překlad: Moskva 1985.)
- *Plesník, J.: *Grafové algoritmy*. Veda, Bratislava 1983.
- Prager, W.: Lineare Ungleichungen in der Baustatik. *Schweiz. Bauzeitung* 80, 1962, 19.
- *Raskin, L. G.—Kiričenko, I. O.: *Mnogoindexnyje zadači linejnogo programirovanija (teorija, metody, priloženija)*. Radio i svjaz, Moskva 1982.
- Reid, J. K.: A sparsity-exploiting variant of the Bartels—Golub decomposition for linear programming bases. *Math. Programming* 24, 1982, s. 55 až 69.
- *Reinfeld, N. V.—Vogel, W. R.: *Mathematical programming*. Prentice—Hall, Englewood Cliffs 1958. (Ruský překlad: Moskva 1960.)
- Roberts, P. D.—Ben-Israel, A.: Interval programming: New approach to linear programming with applications to chemical engineering problems. *I and EC Process Design Development* 8, 1969, s. 496 až 501.
- *Rychetník, L.—Zelinka, J.—Pelzbauerová, J.: *Sbírka příkladů z lineárního programování*. SNTL, ALFA, Praha 1968.
- Sakarovitch, M.—Saigal, R.: An extension of generalized upper bounding techniques for structured linear programs. *SIAM J. Appl. Math.* 15, 1967, s. 906 až 914.
- Saunders, M. A.: Large-scale linear programming using the Cholesky factorization. Report STAN-CS-72-252, Stanford University 1972, California.
- Saunders, M. A.: a) Product form of the Cholesky factorization for large scale linear programming. Report STAN-CS-72-301, Stanford University 1972, California.
- Saunders, M. A.: A fast, stable implementation of the simplex method using Bartels—Golub updating. In: *Sparse Matrix Computations* (J. Bunch, D. Rose, eds.), Academic Press, New York 1976, s. 213 až 226.
- *Shapiro, J. F.: *Mathematical Programming: Structures and algorithms*. Wiley—Interscience, New York 1979.

- Schrijver, A.: The new linear programming method of Karmarkar. CWI Newsletter 8, 1985, s. 2 až 14.
- *Schrijver, A.: Theory of linear and integer programming. Wiley, New York 1986.
- *Simonnard, M.: Programmation linéaire. Dunod, Paris 1962.
- Stiemke, E.: Über positive Lösungen homogener linearer Gleichungen. Mathematische Annalen 76, 1915, s. 340 až 342.
- Szwarc, W.: The transportation paradox. Naval Res. Logistics Quart. 18, 1971, s. 185 až 202.
- Tardos, É.: A strongly polynomial minimum cost circulation algorithm. Combinatorica 5, 1985, s. 247 až 255.
- Todd, M. S.—Burrell, B. P.: An extension of Karmarkar's algorithm for linear programming using dual variables. Algorithmica 1, 1986, s. 395 až 407.
- Turing, A.: On computable numbers, with an application to the Entscheidungsproblem. Proc. London Math. Soc. Ser. 2. 42, 1936, s. 230 až 265 and 43, 1936, s. 544 až 546.
- Wagner, H. M.: A comparison of the original and revised simplex methods. Operations Res. 5, 1957, s. 361 až 369.
- Wolfe, P.: A technique for resolving degeneracy in linear programming. J. Soc. Ind. Appl. Math. 11, 1963, s. 205 až 211.
- Wolfe, P.—Cutler, L.: Experiments in linear programming In: Recent advances in mathematical programming (Grave R. L.—Wolfe P., eds.), McGraw—Hill, New York 1963, s. 177 až 200.
- Zadeh, N.: A bad network problem for the simplex method and other minimum cost flow algorithms. Math. Programming 5, 1973, s. 255 až 266.
- Zadeh, N.: What is the worst case behavior of the simplex algorithm? Stanford University 1980, Technical Report N. 27.
- *Zaslavskij, J. L.: Sbornik zadač po linejnemu programirovaniju. Nauka, Moskva 1969.
- Zelenka, A.: Použití parametrického programování pro výpočet optimálních režných podmínek. Ekonomicko-matematický obzor 7, 1971, s. 69 až 80.