Universidad Autónoma de la Ciudad de México

Notas de Optimización

Apuntes y ejercicios seleccionados

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Referencias

[1] Erling Andersen and Knud Andersen. Presolving in linear programming. *Math. Program.*, 71:221–245, December 1995.

[2] Dr. Hossein Arsham. Foundation of Linear Programming:. *International Journal of Strategic Decision Sciences*, 3:40–60, September 2014.

[3] Dr. Hossein Arsham. Foundation of Linear Programming:. *International Journal of Strategic Decision Sciences*, 3:40–60, September 2014.

[4] Feras Awad. Linear Programming Lecture Notes for Math 373.

[5] Michael Best and Klaus Ritter. *Linear Programming Active Set Analysis and Computer Programs.* January 1985.

[6] Omar Antolín Camarena. Math 340: Linear Programming.

[7] Zhang Chenlin. *OVERVIEW LINEAR PROGRAMMING AND ITS APPLICATION.* August 2022.

[8] Marco Chiarandini. Linear and Integer Programming Lecture Notes.

[9] George B Dantzig. Reminiscences about the Origins of Linear Programming.

[10] George B. Dantzig. Linear Programming. *Operations Research*, 50(1):42–47, February 2002.

[11] George B. Dantzig and Mukund Narain Thapa. *Linear programming.* Springer series in operations research. Springer, New York, 1997.

[12] George Bernard Dantzig. Linear Programming and Extensions.

[13] Departamento de Matemáticas, ITAM. Programación lineal (temario mat-24410). Technical report, Instituto Tecnológico Autónomo de México, 2012. Temario de curso de Programación Lineal, MAT-24410.

[14] Departamento de Matemáticas, ITAM. Temario de programación lineal (mat 24410) – primavera 2022. Technical report, Instituto Tecnológico Autónomo de México, 2022. Temario oficial de curso de Programación Lineal.

[15] Therese Donovan. Linear Programming in R.

[16] Thomas S Fergusin and M Casquilho. Linear Programming, a concise introduction.

[17] Richard Fletcher. A review of linear programming and its application to the assessment tools for teaching and learning (asTTle) projects. January 2001.

[18] Donald Goldfarb and Michael Todd. *Linear programming*, volume 1. October 1989. Journal Abbreviation: Optimization Pages: 170 Publication Title: Optimization.

[19] Jack E. Graver. On the foundations of linear and integer linear programming I. *Mathematical Programming*, 9(1):207–226, December 1975.

[20] Christopher Griffin. Linear programming: Penn State Math 484 Lecture Notes.

[21] Anupam Gupta and Ryan O'Donnell. Lecture notes for CMU's course on linear programming and semidefinite programming.

[22] Mr Jana. *Linear Programing Problem (LPP)*. October 2023.

[23] Rajendra Kunwar and Hari Sapkota. An Introduction to Linear Programming Problems with Some Real-Life Applications. *European Journal of Mathematics and Statistics*, 3:21–27, April 2022.

[24] Dalgobind Mahto. Linear Programming (Graphical Method). March 2015.

[25] Steven Miller. An introduction to linear programming. May 2007.

[26] Dritan Nace. Lecture Notes in Linear Programming modeling.

[27] Phong Nguyen. *Linear Programming*. May 2003.

[28] Desmond C. Ong. *14.5 Using R to solve Linear Optimization | Statistics and Analytics for the Social and Computing Sciences*.

[29] Benjamin Van Roy and Kahn Mason. Formulation and Analysis of Linear Programs.

[30] Mark Schulze. Linear Programming for Optimization. September 2000.

[31] Gilbert Strang. Linear Algebra and Its Applications.

[32] Preeti Tiwari and Dr Agrawal. *A study of linear programming technique*. January 2022.

[33] Universidad Autónoma de la Ciudad de México, Academia de Matemáticas. Programa de estudios: Optimización I. Technical report, Universidad Autónoma de la Ciudad de México, 2012. Programa oficial de la asignatura Optimización I (Licenciatura en Modelación Matemática).

[34] Edith Vargas-García and Andreas Wachtel. Notas de programación lineal: Fundamentos, método simplex, dualidad y puntos interiores. Notas de curso / technical report, Instituto Tecnológico Autónomo de México, Departamento de Matemáticas, 2020. Accedido: 2026-01-28.

[35] Yinyu Ye. Linear Programming Standard Equality Form and Solution Properties.