

**Luenberger, David G.**

**Linear and nonlinear programming. 2nd ed.** (English) Zbl 0571.90051

Reading, Massachusetts etc.: Addison-Wesley Publishing Company. XV, 491 p. \$ 35.50 (1984).

The main change in this second edition with respect to the first (1973; [Zbl 0297.90044](#)) is the addition of two new chapters numbered 5 and 14. Chapter 5 covers the classical material on transportation and assignment problems, network flow theory and related topics. Chapter 14 describes Lagrange methods with emphasis on quadratic programming and variants of Newton methods.

Reviewer: [A.G.Azpeitia](#)

**MSC:**

- [90C30](#) Nonlinear programming
- [90C05](#) Linear programming
- [90-01](#) Introductory exposition (textbooks, tutorial papers, etc.) pertaining to operations research and mathematical programming
- [49-01](#) Introductory exposition (textbooks, tutorial papers, etc.) pertaining to calculus of variations and optimal control
- [65K05](#) Numerical mathematical programming methods
- [49M37](#) Numerical methods based on nonlinear programming

Cited in **5** Reviews  
Cited in **274** Documents

**Keywords:**

[transportation](#); [assignment](#); [network flow](#); [Lagrange methods](#)