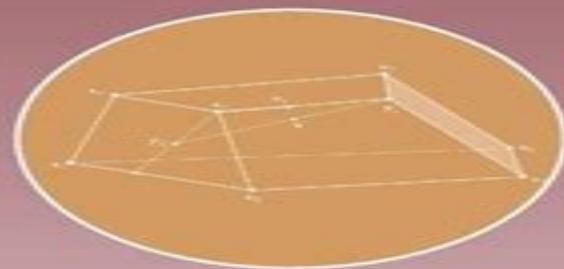
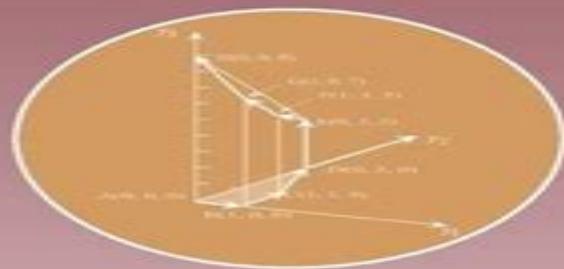
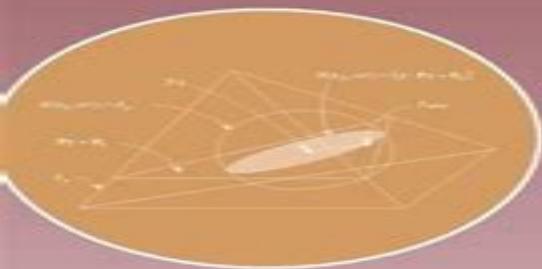


# Linear Programming and Network Flows



*Fourth Edition*

MOKHTAR S. BAZARAA

JOHN J. JARVIS

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# Linear Programming And Network Flows

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theory and monotropic optimization by one of the world's most renowned applied mathematicians. This classic textbook covers extensively the duality theory and the algorithms of linear and nonlinear network optimization and their significant extensions to monotropic programming separable convex constrained optimization problems including linear programs. It complements our other book on the subject of network optimization: *Network Optimization: Continuous and Discrete Models* (Athena Scientific, 1998). Monotropic programming problems are characterized by a rich interplay between combinatorial structure and convexity properties. Rockafellar develops for the first time algorithms and a remarkably complete duality theory for these problems. Among its special features, the book: a) Treats in depth the duality theory for linear and nonlinear network optimization; b) Uses a rigorous step-by-step approach to develop the principal network optimization algorithms; c) Covers the main algorithms for specialized network problems such as max flow, feasibility, assignment, and shortest path; d) Develops in detail the theory of monotropic programming based on the author's highly acclaimed research; e) Contains many examples, illustrations, and exercises; f) Contains much new material not found in any other textbook.

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honoring Gerald L Thompson the pioneer of operations research this volume brings together some of the latest writings of major figures in the field The volume is divided into four parts the first part reviews the career and significance of Thompson the second concentrates on linear and nonlinear optimization the third looks at network and integer programming and the fourth provides examples of applications oriented research in manufacturing This volume will be an invaluable resource for all scholars and researchers involved in theory and methodology in operations research and management science

**On Network Flow Functions** Lloyd S. Shapley, Rand Corporation, 1959 *Network Flow, Transportation, and Scheduling; Theory and Algorithms* Masao Iri, 1969 *Network flow transportation and scheduling theory and algorithms* *Management Science*, 2000 Issues for Feb 1965 Aug 1967 include Bulletin of the Institute of Management Sciences

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