PRINCETON LANDMARKS
IN MATHEMATICS

George B. Dantzig

Linear Programming and Extensions

Linear Programming and Extensions, George Bernard Dantzig, Princeton University Press, 1965, 0691059136, 9780691059136, 627 pages. In real-world problems related to finance, business, and management, mathematicians and economists frequently encounter optimization problems. In this classic book, George Dantzig looks at a wealth of examples and develops linear programming methods for their solutions. He begins by introducing the basic theory of linear inequalities and describes the powerful simplex method used to solve them. Treatments of the price concept, the transportation problem, and matrix methods are also given, and key mathematical concepts such as the properties of convex sets and linear vector spaces are covered. George Dantzig is properly acclaimed as the "father of linear programming." Linear programming is a mathematical technique used to optimize a situation. It can be used to minimize traffic congestion or to maximize the scheduling of airline flights. He formulated its basic theoretical model and discovered its underlying computational algorithm, the "simplex method," in a pathbreaking memorandum published by the United States Air Force in early 1948. Linear Programming and Extensions provides an extraordinary account of the subsequent development of his subject, including research in mathematical theory, computation, economic analysis, and applications to industrial problems. Dantzig first achieved success as a statistics graduate student at the University of California, Berkeley. One day he arrived for a class after it had begun, and assumed the two problems on the board were assigned for homework. When he handed in the solutions, he apologized to his professor, Jerzy Neyman, for their being late but explained that he had found the problems harder than usual. About six weeks later, Neyman excitedly told Dantzig, "I've just written an introduction to one of your papers. Read it so I can send it out right away for publication." Dantzig had no idea what he was talking about. He later learned that the "homework" problems had in fact been two famous unsolved problems in statistics..

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Numerical Recipes in FORTRAN: The Art of Scientific Computing, Volume 1 The Art of Scientific Computing, , 1992, Analyse numÐ“Â©rique - Logiciels, 963 pages. A complete text and reference book on scientific computing. It proceeds from mathematical and theoretical considerations to actual practical computer routines..

Linear programming , James P. Ignizio, Tom M. Cavalier, 1994, Business & Economics, 666 pages. .

The Basic George B. Dantzig , Richard Cottle, 2003, Biography & Autobiography, 378 pages. The late George B. Dantzig , widely known as the father of linear programming, was a major influence in mathematics, operations research, and economics. As Professor Emeritus ....

Linear Programming , Vasek Chvatal, Sep 15, 1983, Mathematics, 478 pages. For upper-division/graduate courses in operations research/management science, mathematics, and computer science, this text covers basic theory, selected applications, network ....

Linear Programming: An Introduction, Issue 60 An Introduction, B. Feiring, Apr 1, 1986, Mathematics, 90 pages. Feiring provides a well-written introduction to the techniques and applications of linear programming. He shows readers how to model, solve, and interpret appropriate linear ....

Linear programming and associated techniques a comprehensive bibliography on linear, nonlinear, and dynamic programming, Vera Riley, Saul I. Gass, 1958, Mathematics, 613 pages. .

Linear programming an introductory analysis, Narendra Paul Loomba, 1964, Mathematics, 284 pages. Linear programming and management; The graphical method; Systematic trial-and-error method; Matrices and vectors; The vector method; The simplex method; The dual; Degeneracy ....

Linear programming and extensions , Nesa L'abbe Wu, Richard Coppins, 1981, , 475 pages. .

Automated deduction in multiple-valued logics , Reiner HÐ“Â¤hnle, 1993, Mathematics, 172 pages.

This is the first book on theorem-proving in multiple-valued logics, a subject which is not covered in other books on theorem-proving, or those on multiple-valued logics. Both ....

Linear Programming , Kathleen Trustrum, Jan 1, 1971, Electronic books, 88 pages. .

Linear programming basic theory and applications, Leonard W. Swanson, 1980, , 218 pages. .

An Illustrated Guide to Linear Programming , Saul I. Gass, 1990, Computers, 173 pages. Entertaining, nontechnical introduction covers basic concepts of linear programming and its relationship to operations research; geometric interpretation and problem solving ....

Linear programming , Katta G. Murty, 1983, Mathematics, 482 pages. A comprehensive, up-to-date text on linear programming. Covers all practical modeling, mathematical, geometrical, algorithmic, and computational aspects. Surveys recent ....

Computer solution of linear programs , John Lawrence Nazareth, 1987, Mathematics, 231 pages. This self-contained book provides a systematic account of the main algorithms derived from the simplex method and the means by which they may be organized into effective ....

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Linear Programming Methods and Applications, G. V. Shenoy, Jan 1, 2007, Linear programming, 223 pages. Due To The Availability Of Computer Packages, The Use Of Linear Programming Technique By The Managers Has Become Universal. This Text Has Been Written Primarily For Management ....

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