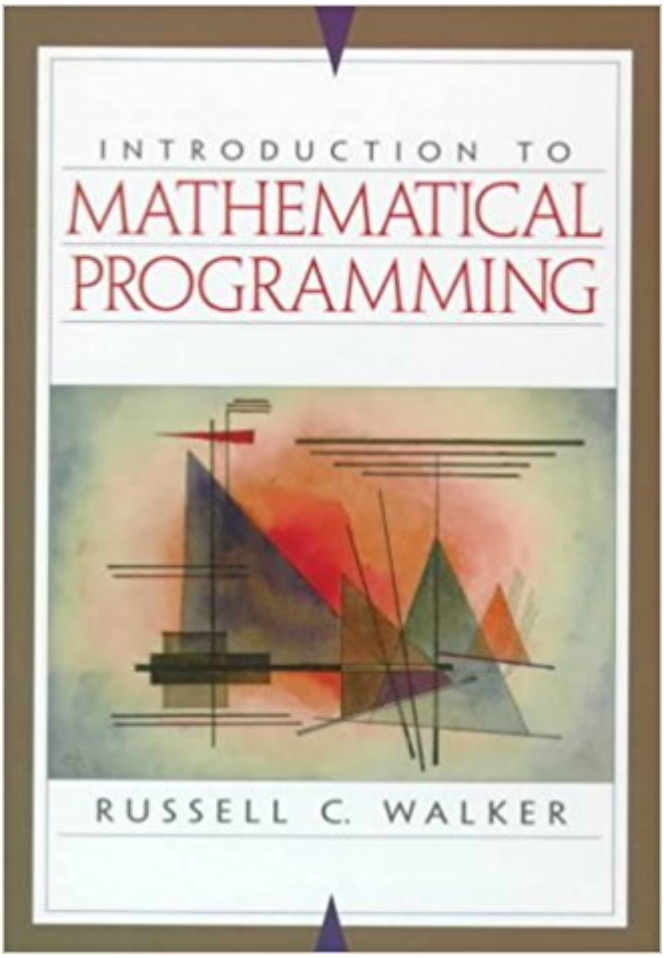
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Introduction To Mathematical Programming



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Synopsis

Empowering users with the knowledge necessary to begin using mathematical programming as a tool for managerial applications and beyond, this practical guide shows when a mathematical model can be useful in solving a problem, and instills an appreciation and understanding of the mathematics associated with the applied techniques. Surveys problem types, and discusses various ways to use specific mathematical tools. Contains prerequisite material for the study of linear programming, and offers a brief introduction to matrix algebra. Discusses the special structures of four network problems: the transportation problem, the critical path method, the shortest path problem, and minimal spanning trees. Covers compound interest and explores the financial aspects of specific problems considered throughout the book. Touches on "mathematics" oriented (vs. applications) material, with integrated proofs and discussions on such topics basic graph theory, linear algebra, analysis, properties of algorithms, and combinatorics. An extensive appendix section includes answers to many problems, an introduction to the linear programming package LINDO, an overview of the symbolic computation package Maple, and brief introductions to the TI-82 and TI-92 calculators and their applications.

Book Information

Hardcover: 560 pages

Publisher: Prentice Hall (January 23, 1999)

Language: English

ISBN-10: 0132637650

ISBN-13: 978-0132637657

Product Dimensions: 7 x 1.1 x 9.2 inches

Shipping Weight: 1.8 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars 1 customer review

Best Sellers Rank: #471,989 in Books (See Top 100 in Books) #63 inÃ Â Books > Science & Math > Mathematics > Applied > Linear Programming #77 inÃ Â Books > Engineering & Transportation > Engineering > Industrial, Manufacturing & Operational Systems > Production, Operation & Management #366 inÃ Â Books > Science & Math > Mathematics > Mathematical Analysis

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