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Linear Optimization and Extensions Thomson Brooks/Cole

Quantitative Techniques: Theory and Problems adopts a fresh and novel approach to the study of quantitative techniques, and provides a comprehensive coverage of the subject. Essentially designed for extensive practice and self-study, this book will serve as a tutor at home. Chapters contain theory in brief, numerous solved examples and exercises with exhibits and tables.

[Understanding and Using Linear Programming](#) Springer Science & Business Media

Encompassing all the major topics students will encounter in courses on the subject, the authors teach both the underlying mathematical foundations and how these ideas are implemented in practice. They illustrate all the concepts with both worked examples and plenty of exercises, and, in addition, provide software so that students can try out numerical methods and so hone their skills in interpreting the results. As a result, this will make an ideal textbook for all those coming to the subject for the first time. Authors' note: A problem recently found with the software is due to a bug in Formula One, the third party commercial software package that was used for the development of the interface. It occurs when the date, currency, etc. format is set to a non-United States version. Please try setting your computer date/currency option to the United States option. The new version of Formula One, when ready, will be posted on WWW.

[Linear and Nonlinear Programming](#) CRC Press

Table of contents

[Introduction to Management Science with Spreadsheets](#) CRC Press

Originally published: New York: Holt, Rinehart and Winston, 1961.

[Linear Programming](#) Springer Science & Business Media

Salient Features: This book gives methodical and step-by-step explanation of the Simplex Method which is missing in most of the available books. The book goes on as a teacher explaining and simplifying the topics to a student. All the university question paper problems with 74 examples and 81 exercises illustrate the methodology. Problems solved by Graphical Method are explained with neat and accurate graphs. Twenty-One Theorems with proofs and corollaries will facilitate logical understanding of the subject. Detailed explanations are given to make the reader confident about the subject.

[Linear Programming I](#) Springer Science & Business Media

The book is an introductory textbook mainly for students of computer science and mathematics. Our guiding phrase is "what every theoretical computer scientist should know about linear programming". A major focus is on applications of linear programming, both in practice and in theory. The book is concise, but at the same time, the main results are covered with complete proofs and in sufficient detail, ready for presentation in class. The book does not require more prerequisites than basic linear algebra, which is summarized in an appendix. One of its main goals is to help the reader to see linear programming "behind the scenes".

[Introduction to Linear Programming](#) New Age International

Designed for engineers, mathematicians, computer scientists, financial analysts, and anyone interested in using numerical linear algebra, matrix theory, and game theory concepts to maximize efficiency in solving applied problems. The book emphasizes the solution of various types of linear programming problems by using different types of software, but includes the necessary definitions and theorems to master theoretical aspects of the topics presented. Features: Emphasizes the solution

of various types of linear programming problems by using different kinds of software, e.g., MS-Excel, extra material including some on Interior Point Methods.

solutions of LPPs by Mathematica, MATLAB, WinQSB, and LINDO Provides definitions, theorems, [R for Data Science](#) Springer Science & Business Media

and procedures for solving problems and all cases related to various linear programming topics

Includes numerous application examples and exercises, e.g., transportation, assignment, and maximization Presents numerous topics that can be used to solve problems involving systems of linear equations, matrices, vectors, game theory, simplex method, and more.

Multiobjective Programming and Planning Courier Corporation

While maintaining its focus on functions and graphs this book gives the adequately prepared algebra student the right start and flexible goals.

Linear Programming Springer Nature

The second edition of this popular book presents the theory of graphs from an algorithmic viewpoint.

The authors present the graph theory in a rigorous, but informal style and cover most of the main areas of graph theory. The ideas of surface topology are presented from an intuitive point of view.

We have also included a discussion on linear programming that emphasizes problems in graph theory. The text is suitable for students in computer science or mathematics programs. ?

[Finite Math and Applied Calculus](#) Academic Press

This text, extensively class-tested over a decade at UC Berkeley and UC San Diego, explains the fundamentals of algorithms in a story line that makes the material enjoyable and easy to digest. Emphasis is placed on understanding the crisp mathematical idea behind each algorithm, in a manner that is intuitive and rigorous without being unduly formal. Features

include: The use of boxes to strengthen the narrative: pieces that provide historical context, descriptions of how the algorithms are used in practice, and excursions for the mathematically

sophisticated. Carefully chosen advanced topics that can be skipped in a standard one-

semester course but can be covered in an advanced algorithms course or in a more leisurely

two-semester sequence. An accessible treatment of linear programming introduces students to

one of the greatest achievements in algorithms. An optional chapter on the quantum

algorithm for factoring provides a unique peephole into this exciting topic. In addition to the

text DasGupta also offers a Solutions Manual which is available on the Online Learning

Center." Algorithms is an outstanding undergraduate text equally informed by the historical

roots and contemporary applications of its subject. Like a captivating novel it is a joy to

read." Tim Roughgarden Stanford University

Graphs, Algorithms, and Optimization, Second Edition Northern Book Centre

This text is concerned primarily with the theory of linear and nonlinear programming, and a number of closely-related problems, and with algorithms appropriate to those problems. In the first part of the book, the authors introduce the concept of duality which serves as a unifying concept throughout the book. The

simplex algorithm is presented along with modifications and adaptations to problems with special structures. Two alternative algorithms, the ellipsoidal algorithm and Karmarkar's algorithm, are also discussed, along

with numerical considerations. The second part of the book looks at specific types of problems and methods for their solution. This book is designed as a textbook for mathematical programming courses, and each

chapter contains numerous exercises and examples.

Iterative Methods in Combinatorial Optimization John Wiley & Sons

This text takes a broad view of multiobjective programming, emphasizing the methods most useful for continuous problems. It reviews multiobjective programming methods in the context of public decision-

making problems, developing each problem within a context that addresses practical aspects of planning

issues. Topics include a review of linear programming, the formulation of the general multiobjective

programming problem, classification of multiobjective programming methods, techniques for generating

noninferior solutions, multiple-decision-making methods, multiobjective analysis of water resource

problems, and multiobjective analysis of facility location problems. 1978 edition.

[Operations Research Methods And Practice](#) Pearson

Presenting a strong and clear relationship between theory and practice, [Linear and Integer Optimization: Theory and Practice](#) is divided into two main parts. The first covers the theory of linear and integer optimization, including both basic and advanced topics. Dantzig's simplex algorithm, duality, sensitivity analysis, integer optimization models

[Theory of Linear and Integer Programming](#) Mercury Learning and Information

This third edition of the classic textbook in Optimization has been fully revised and updated. It

comprehensively covers modern theoretical insights in this crucial computing area, and will be

required reading for analysts and operations researchers in a variety of fields. The book connects the

purely analytical character of an optimization problem, and the behavior of algorithms used to solve

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