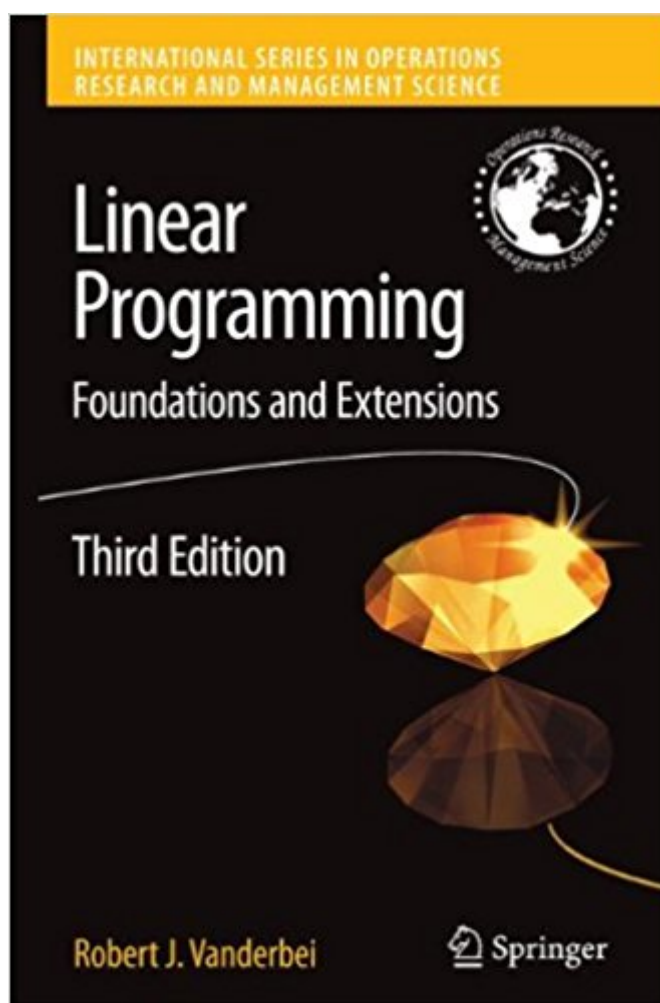The book was found

Linear Programming: Foundations And Extensions (International Series In Operations Research & Management Science)

INTERNATIONAL SERIES IN OPERATIONS
RESEARCH AND MANAGEMENT SCIENCE

Linear Programming

Foundations and Extensions

Third Edition

Robert J. Vanderbei

Springer

Synopsis

This Third Edition introduces the latest theory and applications in optimization. It emphasizes constrained optimization, beginning with linear programming and then proceeding to convex analysis, network flows, integer programming, quadratic programming, and convex optimization. Youââ¬â¢ll discover a host of practical business applications as well as non-business applications. With its focus on solving practical problems, the book features free C programs to implement the major algorithms covered. The bookââ¬â¢s accompanying website includes the C programs, JAVA tools, and new online instructional tools and exercises.

Book Information

Series: International Series in Operations Research & Management Science (Book 114)

Hardcover: 468 pages

Publisher: Springer; 3rd edition (November 26, 2007)

Language: English

ISBN-10: 0387743871

ISBN-13: 978-0387743875

Product Dimensions: 9.3 x 6.3 x 1.3 inches

Shipping Weight: 2 pounds (View shipping rates and policies)

Average Customer Review: 3.8 out of 5 stars   11 customer reviews

Best Sellers Rank: #808,075 in Books (See Top 100 in Books)   #88 inÃ Â Books > Engineering & Transportation > Engineering > Industrial, Manufacturing & Operational Systems > Economics #123 inÃ Â Books > Science & Math > Mathematics > Applied > Linear Programming   #388 inÃ Â Books > Business & Money > Processes & Infrastructure > Operations Research

Customer Reviews

From the reviews of the third edition: "Robert VanderbeiÃ¢â¬â¢s textbook on linear programming, now in its third edition, builds on many of the approaches used by ChvÃƒÂ¡tal and includes up-to-date coverage of a number of topics, including interior point methods, that have become important in the 25 years since the publication of ChvÃƒÂ¡talÃ¢â¬â¢s book. VanderbeiÃ¢â¬â¢s book is divided into four parts. Ã¢â¬Â¦ suitable for use in a first course in linear programming covering the simplex method at the advanced undergraduate or graduate level." (Brian Borchers, MathDL, May, 2008)

I have purchased that book to get more familiar with linear programming. I have never attended a

lin. prog. course in the past, and this book was recommended to me by a friend as a good introduction to the subject. So far I have to agree with him. The author succeeds in starting from applied examples to make his readers grasp the more abstracts notions that he develops in his book.

El libro es excelente, realmente lo recomiendo para aquellos que quieren empezar en el mundo de la programacion lineal y para los que ya poseen un conocimiento en este campo. Cuenta con bastante material de apoyo en internet y es muy claro en las explicaciones. Lamentablemente la compañfÂ ia de envios no hizo un buen trabajo, el libro fue averiado en el envÃfÂ-o.

I fully agree with J. Pierce. I bought this book because I wanted to refresh the things I learned in the university about linear programming. I don't recall these concepts being so difficult and obscure: when the author introduces a new topic, he does so without trying to explain how does it fit into the general subject, he doesn't bother demonstrating most of the important facts in the book and most of them come as a given. I got to the 4th chapter and I decided to look somewhere else!!!As I said, I did good when I as studying these topics in the university (simplex method and linear programming), and I just wanted something I could read on my kindle to refresh my memory and get me on track for writing an algorithm I need to solve a somewhat complex linear programming model. If this would have been my first book, I would have thought that the topic was really obscure and difficult to understand!!!Fortunately I have Hillier and Lieberman's Operation Research book on my bookshelf. I will go back to that one, which I know will do the trick. Unfortunately it isn't available for the kindle, and it is as heavy as a brick, which is what I was trying to avoid when I went shopping for a kindle book on the subject.

Unfortunately this book took so long to deliver that our son had to purchase one locally, as he could not wait what took over 3 weeks to deliver, making this book a waste of our money. He plans to sell it back to the college bookstore at the end of term.

This is not a book from which to learn linear programming. Nor is it a stretch that the author and a profesor(sic) of linear programming (I assume not of spelling) may give this title 5 stars -- they are not attempting to learn the subject that this book fails miserably at teaching. i.e. Note to author: If you use a term, make sure you at least define it somewhere. Except to find the problems that were assigned in my class, my only use for this book was as an object to fling in frustration before finding

a decent explanation elsewhere.

I read the 2nd edition of Dr. Vanderbei's text in its entirety before taking my doctoral qualifying exams. I was shocked to read some of the negative reviews -- this is an outstanding introductory text for a graduate-level course!In my opinion, the text strikes a delicate balance between two extremes: a strict treatment of theory and an exclusive focus on applications. Vanderbei provides a very readable explanation of fundamental theoretical results in linear programming, yet he also provides meaningful and insightful applications of the theory. In contrast to many other linear programming texts, Vanderbei effectively treats both the "why" and the "how."Here's a brief guide to the book. Part One of the text is sufficient for readers who want to gain a basic understanding of linear programming theory and how to solve linear programming problems via the simplex method. Part Two discusses network-type problems, an important problem class on which linear programming methods have proven invaluable in solving industrial-sized problems. Part Three introduces the motivated reader to interior-point methods, a more recent class of algorithms for solving linear programming problems. This section effectively summarizes key research in interior-point methods, an area in which the author is an expert. Part Four demonstrates how Parts One, Two, and Three can be applied in a more general sense to solve convex programming problems.

Linear Programming: Foundations and Extensions (International Series in Operations Research & Management Science) Linear and Nonlinear Programming: 116 (International Series in Operations Research & Management Science) Python Programming: Python Programming for Beginners, Python Programming for Intermediates, Python Programming for Advanced C++: The Ultimate Crash Course to Learning the Basics of C++ (C programming, C++ in easy steps, C++ programming, Start coding today) (CSS,C Programming, ... Programming,PHP, Coding, Java Book 1) Hydropower Economics (International Series in Operations Research & Management Science) Optimal Inventory Modeling of Systems: Multi-Echelon Techniques (International Series in Operations Research & Management Science) Quantitative Health Risk Analysis Methods: Modeling the Human Health Impacts of Antibiotics Used in Food Animals (International Series in Operations Research & Management Science) Quantitative Health Risk Analysis Methods: Modeling the Human Health Impacts of Antibiotics Used in Food Animals: 82 (International Series in Operations Research & Management Science) Foundations in Nursing Research (6th Edition) (Nieswiadomy, Foundations of Nursing Research) C++ and Python Programming: 2 Manuscript

Bundle: Introductory Beginners Guide to Learn C++ Programming and Python Programming C++ and Python Programming 2 Bundle Manuscript. Introductory Beginners Guide to Learn C++ Programming and Python Programming Deterministic Operations Research: Models and Methods in Linear Optimization Python Programming: The Complete Step By Step Guide to Master Python Programming and Start Coding Today! (Computer Programming Book 4) Introduction to Stochastic Programming (Springer Series in Operations Research and Financial Engineering) Operations and Supply Chain Management: The Core (Book Only) (McGraw-Hill/Irwin Series Operations and Decision Sciences) Operations Management in the Supply Chain: Decisions and Cases (McGraw-Hill/Irwin Series, Operations and Decision Sciences) Operations Management (McGraw-Hill Series in Operations and Decision Sciences) OPERATIONS MANAGEMENT IN THE SUPPLY CHAIN: DECISIONS & CASES (Mcgraw-Hill Series Operations and Decision Sciences) Loose-leaf for Operations Management (The Mcgraw-Hill Series in Operations and Decision Sciences) Elementary Linear Programming with Applications, Second Edition (Computer Science & Scientific Computing Series)