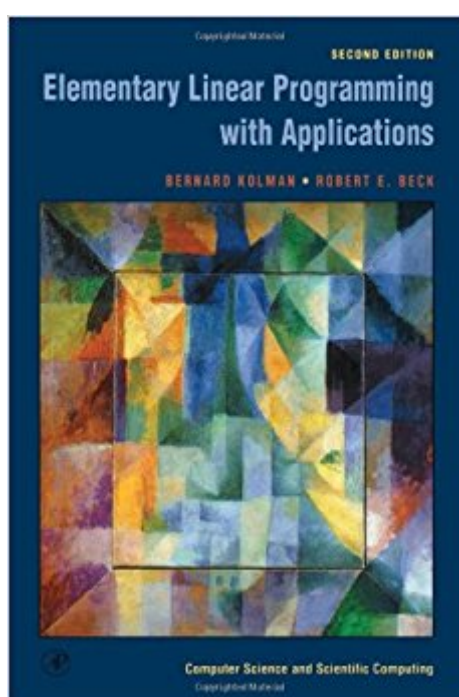The book was found

Elementary Linear Programming With Applications, Second Edition (Computer Science & Scientific Computing Series)

Synopsis

Linear programming finds the least expensive way to meet given needs with available resources. Its results are used in every area of engineering and commerce: agriculture, oil refining, banking, and air transport. Authors Kolman and Beck present the basic notions of linear programming and illustrate how they are used to solve important common problems. The software on the included disk leads students step-by-step through the calculations. The Second Edition is completely revised and provides additional review material on linear algebra as well as complete coverage of elementary linear programming. Other topics covered include: the Duality Theorem; transportation problems; the assignment problem; and the maximal flow problem. New figures and exercises are provided and the authors have updated all computer applications.More review material on linear algebraElementary linear programming covered more efficientlyPresentation improved, especially for the duality theorem, transportation problems, the assignment problem, and the maximal flow problemNew figures and exercisesComputer applications updatedNew guide to inexpensive linear programming software for personal computers

Book Information

Series: Computer Science & Scientific Computing Series

Hardcover: 449 pages

Publisher: Academic Press; 2 edition (July 6, 1995)

Language: English

ISBN-10: 012417910X

ISBN-13: 978-0124179103

Product Dimensions: 6.1 x 1.1 x 9.2 inches

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

Average Customer Review: 2.9 out of 5 stars   6 customer reviews

Best Sellers Rank: #137,891 in Books (See Top 100 in Books)   #11 inÂ Books > Science & Math > Mathematics > Applied > Linear Programming   #80 inÂ Books > Science & Math > Mathematics > Applied > Differential Equations   #88 inÂ Books > Science & Math > Mathematics > Mathematical Analysis

Customer Reviews

"The book presents the basic ideas of linear programming and related areas by not using a rigorous approach. The main objective, to provide a textbook that is readable by students in business, engineering, and computer science, seems to have been achieved....A rich set of more than 280

exercises, real-life projects and further reading suggestions successfully stimulates learning."--MATHEMATICAL REVIEWS"...The book is very clearly written with many illustrative examples and exercises. The proofs of theoretical results are kept to a minimum so that the book is easy to read even for non mathematics students. It is an excellent textbook on linear programming at an introductory level."--ZENT. FUR MATHEMATIK UNDIHRE GRENZGEBIETE

Linear programming finds the least expensive way to meet given needs with available resources. Its results are used in every area of engineering and commerce; including agriculture, oil refining, banking, and air transport. Authors Kolman and Beck present the basic notions of linear programming and illustrate how they are used to solve important common problems. The software on the included disk leads students through the calculations. Students in quantitative fields, or students in business who want a quantitative approach, will find that the Second Edition has been completely revised to give an orderly introduction to the basic ideas in linear programming. Appropriate review material on linear algebra is included. Other topics covered include the Duality Theorem, the transportation problem, the assignment problem, and the maximal flow problem. New figures and exercises are provided and the authors have updated all computer applications. An appendix, new to this edition, provides a brief introduction to the Kamarkar algorithm.

Not my cup of tea as a computer scientist yet it served the purpose honorably. Problems are nice, complete, challenging yet sometimes its hard to connect the dots between the exercises and the chapter's content. Still, is a classic...

This is a good book. Everything is well explained and each section has many examples. The only thing I would complain about is that the examples should probably have been placed before the theorem statement/proof as it would help the reader understand the proof. The material is all very straightforward and shouldn't cause any headaches. Overall an excellent book which I'd recommend to anyone who would like to learn linear programming.For anyone trying to learn linear programming out a class room setting it is also good as the back has answers to odd numbered questions.

This book was really useful. It has plenty of examples and problems to work through. It also presents the material in a really clear and easy to follow manner. The only thing that I thought could be done better is that it didn't have enough proofs of some important theorems.

I am currently the marker for a first course on linear programming which uses this book. I find that the definitions of key terms are buried in the text, like the definition of a basic solution on p. 95. The description of the simplex algorithm in section 2.1 is mixed together with a particular linear programming problem. I would prefer to have a general description and then many detailed examples, rather than a mix of both and then only two examples. I have a similar complaint with section 2.3 on the two phase method.This book is expensive. There are books published by Dover that cover the simplex algorithm, duality, and integer programming that cost a tenth as much as this book, and an instructor should look at those before assigning a book that costs this much. Also, it is ludicrous now to have newly purchased books come with floppy disks.

Not enough examples, not enough detailed explanation. If you get this book, be prepared to get confused.

The book is okay at explaining stuff

Elementary Linear Programming with Applications, Second Edition (Computer Science & Scientific Computing Series) 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) Python Programming: The Complete Step By Step Guide to Master Python Programming and Start Coding Today! (Computer Programming Book 4) Set Theory for Computing: From Decision Procedures to Declarative Programming with Sets (Monographs in Computer Science) Extremal Combinatorics: With Applications in Computer Science (Texts in Theoretical Computer Science. An EATCS Series) Visualization in Scientific Computing (Focus on Computer Graphics) Elementary Linear Circuit Analysis (The Oxford Series in Electrical and Computer Engineering) Linear Algebra With Applications (Jones and Bartlett Publishers Series in Mathematics. Linear) Coding the Matrix: Linear Algebra through Applications to Computer Science Coding the Matrix: Linear Algebra through Computer Science Applications Elementary Linear Algebra with Applications (Classic Version) (9th Edition) (Pearson Modern Classics for Advanced Mathematics Series) Linear Algebra and Its Applications plus New MyMathLab with Pearson eText -- Access Card Package (5th Edition) (Featured Titles for Linear Algebra (Introductory)) Linear Algebra with Applications (9th Edition)

(Featured Titles for Linear Algebra (Introductory)) Biomedical Statistics with Computing (Medical Computing Series) Elementary Fluid Dynamics (Oxford Applied Mathematics and Computing Science Series) Elementary Linear Algebra with Applications (9th Edition) Elementary Linear Algebra: Applications Version, 11th Edition Programmed Inequality: How Britain Discarded Women Technologists and Lost Its Edge in Computing (History of Computing) C++ and Python Programming: 2 Manuscript Bundle: Introductory Beginners Guide to Learn C++ Programming and Python Programming