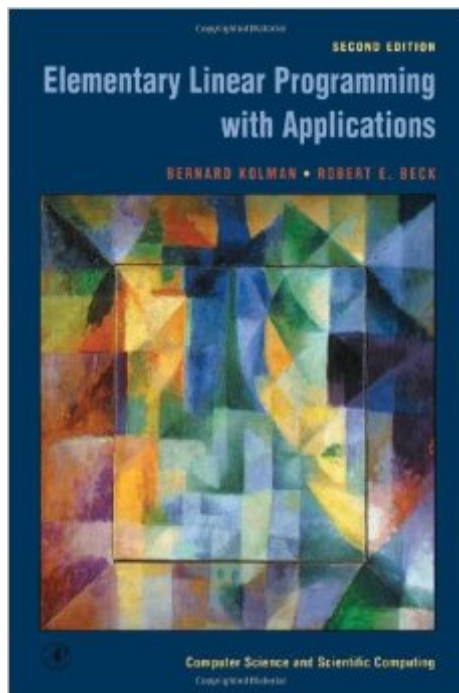# Elementary Linear Programming With Applications, Second Edition (Computer Science & Scientific Computing Series)

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. TheÂ companion website on www.elsevierdirect.comÂ contains the student-oriented linear programming code SMPX, written by Professor Evar Nering of Arizona State University. The authors also recommend inexpensive linear programming software for personal computers. Please note the previous printing included a disk attached to the back of the book. The material is now only available on the companion website - http://www.elsevierdirect.com/product.jsp?isbn=9780124179103* More review material on linear algebra * Elementary linear programming covered more efficiently * Presentation improved, especially for the duality theorem, transportation problems, the assignment problem, and the maximal flow problem * New figures and exercises * Computer applications updated * Companion website on www.elsevierdirect.com with the student-oriented linear programming code SMPX, written by Professor Evar Nering of Arizona State University * New guide to inexpensive linear programming software for personal computers Please note the previous printing included a disk attached to the back of the book. The material is now only available on the companion website - http://www.elsevierdirect.com/product.jsp?isbn=9780124179103

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Customer Reviews

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 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 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.

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.

The book is okay at explaining stuff

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