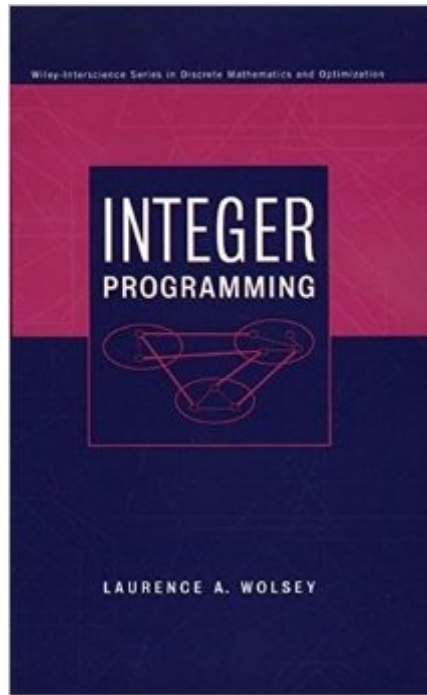


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Integer Programming



Synopsis

A practical, accessible guide to optimization problems with discrete or integer variables. Integer Programming stands out from other textbooks by explaining in clear and simple terms how to construct custom-made algorithms or use existing commercial software to obtain optimal or near-optimal solutions for a variety of real-world problems, such as airline timetables, production line schedules, or electricity production on a regional or national scale. Incorporating recent developments that have made it possible to solve difficult optimization problems with greater accuracy, author Laurence A. Wolsey presents a number of state-of-the-art topics not covered in any other textbook. These include improved modeling, cutting plane theory and algorithms, heuristic methods, and branch-and-cut and integer programming decomposition algorithms. This self-contained text:

- * Distinguishes between good and bad formulations in integer programming problems
- * Applies lessons learned from easy integer programs to more difficult problems
- * Demonstrates with applications theoretical and practical aspects of problem solving
- * Includes useful notes and end-of-chapter exercises
- * Offers tremendous flexibility for tailoring material to different needs

Integer Programming is an ideal text for courses in integer/mathematical programming—whether in operations research, mathematics, engineering, or computer science departments. It is also a valuable reference for industrial users of integer programming and researchers who would like to keep up with advances in the field.

Book Information

Hardcover: 288 pages

Publisher: Wiley-Interscience; 1 edition (September 9, 1998)

Language: English

ISBN-10: 0471283665

ISBN-13: 978-0471283669

Product Dimensions: 6.3 x 0.8 x 9.6 inches

Shipping Weight: 1.2 pounds (View shipping rates and policies)

Average Customer Review: 3.3 out of 5 stars — See all reviews (9 customer reviews)

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Customer Reviews

I really like reading this book. It is upto date in terms of algorithms and theory. You can find nearly every basic topic about integer optimization in the book. I consider it as a complete reference in integer optimization. The sequence of the topics, chapters, also make it easier to understand the contents. The book gives both the theory and solution strategies. I recommend the book for people who work or study in the following areas: industrial engineering, operations research and operations management.

If you are already familiar with IP, This is a condensed directory of almost every useful IP algorithms. But I will never call it a textbook. A Few number of exercises at the end of each chapter, and there is not any problem solved in the text. You would not learn how to make your hands dirty and formulate real examples. The way it explains the algorithms is way complicated and brief. And \$140 for this small book does not make sense at all. Spend your money on Bazara which has much more to give you.

This is definitely not a book for self-learner -- perhaps after a course in linear programming and assuming the reader has some mathematical maturity. The book is precise and succinct in that it covers all key concepts very well. It has ample examples to illustrate key concepts. Price is a tad high though.

It's a bit...terse. The descriptions aren't always clear to the extent that you want them to be. The book is complete, but not in-depth/descriptive. I would recommend other books to supplement the information in this one.

It has all the major subjects in IP and uses a mathematical approach very clear.

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