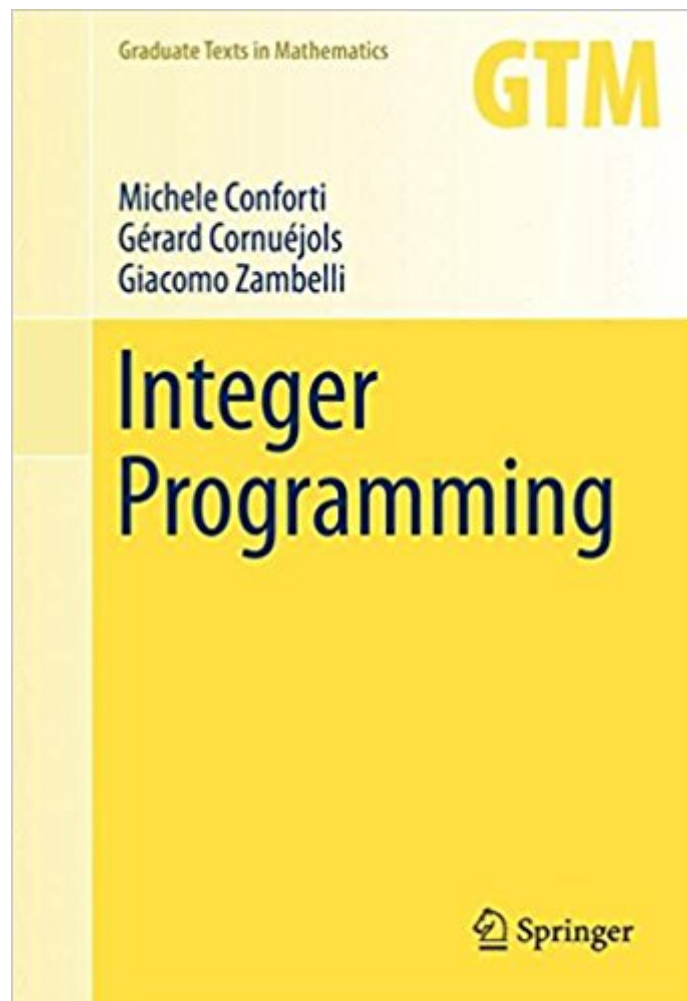




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Integer Programming (Graduate Texts In Mathematics)



Synopsis

This book is an elegant and rigorous presentation of integer programming, exposing the subject's mathematical depth and broad applicability. Special attention is given to the theory behind the algorithms used in state-of-the-art solvers. An abundance of concrete examples and exercises of both theoretical and real-world interest explore the wide range of applications and ramifications of the theory. Each chapter is accompanied by an expertly informed guide to the literature and special topics, rounding out the reader's understanding and serving as a gateway to deeper study. Key topics include: formulations, polyhedral theory, cutting planes, decomposition, enumeration, semidefinite relaxations. Written by renowned experts in integer programming and combinatorial optimization, Integer Programming is destined to become an essential text in the field.

Book Information

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Customer Reviews

"Integer Programming begins by introducing the subject and giving several examples of integer programming problems. This book would be suitable for a graduate level course on the mathematics of cutting plane methods. This book might also be of interest as a reference for researchers working in this area. This book offers a more focused presentation that makes it better suited for use as a textbook." (Brian Borchers, MAA Reviews, maa.org, December, 2015) "The book is written in a very clear and didactic style.

very useful for mathematically mature undergraduates, graduate students, postdocs, and established researchers who are interested in the techniques. This is an excellent and impressive book. We wholeheartedly recommend it as a textbook for advanced undergraduate and introductory graduate courses on integer programming. (Jakub Marecek, Interfaces, Vol. 45 (5), September-October, 2015)

“The authors deliver a comprehensive presentation of integer programming. Everything is presented in a rigorous way, but on the other hand, the form makes it easy to understand for everyone. Each chapter is followed by the exercises, that allow to recall the contents. the book is an essential text in the field of integer programming, that should be recommended as a very useful textbook for students, but also a valuable introduction for the researchers in this area. (Marcin Anholcer, zbMATH 1307.90001, 2015)

This book is an elegant and rigorous presentation of integer programming, exposing the subject's mathematical depth and broad applicability. Special attention is given to the theory behind the algorithms used in state-of-the-art solvers. An abundance of concrete examples and exercises of both theoretical and real-world interest explore the wide range of applications and ramifications of the theory. Each chapter is accompanied by an expertly informed guide to the literature and special topics, rounding out the reader's understanding and serving as a gateway to deeper study. Key topics include: formulations, polyhedral theory, cutting planes, decomposition, enumeration, semidefinite relaxations. Written by renowned experts in integer programming and combinatorial optimization, Integer Programming is destined to become an essential text in the field.

Very modern approach to integer programming. The explanations are clear and the formatting is readable. The index is very complete and makes this as quite a good reference book.

Fantastic modern treatment of integer programming, suitable for graduate courses on the subject. Winner of the 2015 INFORMS Lanchester Prize for best contribution to operations research in the past 3 years.

Nice book. Prefect condition

Integer Programming has grown a lot in the past 4 decades. There are not many (if any) great books in the market that cover these advances. This is a great book that provides a potent

introduction to the state of the art in the field.

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