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Description. Integer Programming: Theory, Applications, and Computations provides information pertinent to the theory, applications, and computations of integer programming. This book presents the computational advantages of the various techniques of integer programming.

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Integer Programming: Theory, Applications, and Computations provides information pertinent to the theory, applications, and computations of integer programming. This book presents the computational advantages of the various techniques of integer programming. Organized into eight chapters, this book begins with an overview of the general categorization of integer applications and explains the three fundamental techniques of integer programming.

Integer Programming - 1st Edition
Integer programming : theory, applications, and computations by Taha, Hamdy A. Publication date 1975 Topics Integer programming, Programmation en nombres entiers, Discrete programming, Toepassingen, Programmation en nombres entiers, Ganzzahlige Optimierung, Ganzzahlige lineare Optimierung, Optimierung, Integer programming

Integer programming : theory, applications, and ...
An integer programming problem is a mathematical optimization or feasibility program in which some or all of the variables are restricted to be integers. In many settings the term refers to integer linear programming, in which the objective function and the constraints are linear. Integer programming is NP-complete. In particular, the special case of 0-1 integer linear programming, in which unknowns are binary, and only the restrictions must be satisfied, is one of Karp's 21 NP-complete problems

Integer programming - Wikipedia
116 CHAPTER 3 Applications of Linear and Integer Programming Models The unit profits are \$23, \$34, and \$45, and the amount of plastic required to pro-duce each is 2 pounds, 3 pounds, and 4 pounds, respectively. In addition, manage-ment does not want any model to exceed 40% of total production (X 1 X 2 X 3).

Applications of Linear and Integer Programming Models 3
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

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Integer programming: theory, applications, and ...
FOR INTEGER PROGRAMMING: THEORY AND APPLICATIONS (*) by Monique GUIGNARD (*) and Siwhan KIM (*) (2) Abstract. Given a mixed-integer programming problem whose constraint set is the intersection of several specially structured constraint sets, it is possible to artificially induce décomposition in

Lagrangean decomposition for integer programming : theory ...
and Mixed-integer Nonlinear Programming Theory, Algorithms, Software and Applications by Mohit Tawarmalani Purdue University, West Lafayette, IN, U.S.A. and Nikolaos V. Sahinidis University of Illinois, Urbana, IL, U.S.A. KLUWER ACADEMIC PUBLISHERS DORDRECHT / BOSTON / LONDON

Convexification and Global Optimization in Continuous and ...
One of my favorite applications of integer-linear programming is combinatorial auctions. Given a set of package bids, the auctioneer must choose a set of winning bids which maximize revenue (or value) while satisfying the constraints on the number of items at auction.

What are some modern applications of integer programming ...
Integer programming: applications, modeling, branch-and-bound, polyhedral theory, valid inequalities, advanced techniques. Prerequisites: Linear algebra; probability; mathematical maturity (including ability to write a formal proof); basic computer science background or instructor's permission.

CPS 590.01 - Linear and Integer Programming
The aim of this book is to marry the advancements in solving nonlinear and integer programming models and to develop new results in the more general framework of mixed-integer nonlinear programs (MINLPs) with the goal of devising practically efficient global optimization algorithms for MINLPs.

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