

1: Ted Ralphs » ISE Integer Programming

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Applications[edit] There are two main reasons for using integer variables when modeling problems as a linear program: The integer variables represent quantities that can only be integer. For example, it is not possible to build 3. The integer variables represent decisions and so should only take on the value 0 or 1. These considerations occur frequently in practice and so integer linear programming can be used in many applications areas, some of which are briefly described below. Production planning[edit] Mixed integer programming has many applications in industrial production, including job-shop modelling. One important example happens in agricultural production planning involves determining production yield for several crops that can share resources e. Land, labor, capital, seeds, fertilizer, etc. A possible objective is to maximize the total production, without exceeding the available resources. In some cases, this can be expressed in terms of a linear program, but variables must be constrained to be integer. Scheduling[edit] These problems involve service and vehicle scheduling in transportation networks. For example, a problem may involve assigning buses or subways to individual routes so that a timetable can be met, and also to equip them with drivers. Here binary decision variables indicate whether a bus or subway is assigned to a route and whether a driver is assigned to a particular train or subway. It is used in a special case of integer programming, in which all the decision variables are integers. It can assume the values either as zero or one. Telecommunications networks[edit] The goal of these problems is to design a network of lines to install so that a predefined set of communication requirements are met and the total cost of the network is minimal. In many cases, the capacities are constrained to be integer quantities. Usually there are, depending on the technology used, additional restrictions that can be modeled as linear inequalities with integer or binary variables. Cellular networks[edit] The task of frequency planning in GSM mobile networks involves distributing available frequencies across the antennas so that users can be served and interference is minimized between the antennas. But, not only may this solution not be optimal, it may not even be feasible; that is, it may violate some constraint. Using total unimodularity[edit] While in general the solution to LP relaxation will not be guaranteed to be integral, if the ILP has the form max.

2: Laurence Wolsey - Wikipedia

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.

3: Integer Programming : Laurence A. Wolsey :

This volume is aimed at users of integer programming who wish to understand why some problems are difficult to solve, how techniques can be reformulated to give better results, and how mixed integer programming systems can be used more effectively.

4: Integer Programming by Laurence A. Wolsey

A textbook for courses in integer/mathematical programming, which explains how to construct algorithms or use existing commercial software to obtain solutions for a variety of real-world problems such as airline timetables or production line schedules.

5: Laurence A. Wolsey (Author of Integer Programming)

WOLSEY INTEGER PROGRAMMING pdf

Integer Programming (Wiley Series in Discrete Mathematics and Optimization) by Wolsey, Laurence A. and a great selection of similar Used, New and Collectible Books available now at www.enganchecubano.com

6: Integer Programming - Laurence A. Wolsey - Google Books

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.

7: Integer Programming | Discrete Mathematics | Mathematics & Statistics | Subjects | Wiley

50 Years of Integer Programming From the Early Years to the State-of-the-Art Michael Junger" Â· Thomas Liebling Â· Denis Naddef Â· George Nemhauser Â·

8: Integer programming - Wikipedia

Mixed-Integer Programming II â€¢ In the pure integer programming case, the GMI inequality reduces to L.A. Wolsey: Integer and Combinatorial Optimization.

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