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Introduction to Mathematical Programming May 03 2024 This text presents current and classical mathematical programming techniques at an introductory level. It provides case problems to stimulate interest and is aimed for undergraduate courses in management science, operations and decision research, and applied mathematics.

Applied Mathematical Programming Jul 05 2024 Mathematical programming: an overview; solving linear programs; sensitivity analysis; duality in linear programming; mathematical programming in practice; integration of strategic and tactical planning in the aluminum industry; planning the mission and composition of the U.S. merchant Marine fleet; network models; integer programming; design of a naval tender job shop; dynamic programming; large-scale systems; nonlinear programming; a system for bank portfolio planning; vectors and matrices; linear programming in matrix form; a labeling algorithm for the maximum-flow network problem.

Mathematical Programming for Industrial Engineers Jul 13 2022 Setting out to bridge the gap between the theory of mathematical programming and the varied, real-world practices of industrial engineers, this work introduces developments in linear, integer, multiobjective, stochastic, network and dynamic programming. It details many relevant industrial-engineering applications. College or university bookstores may order five or more copies at a special student price, available upon request from Marcel Dekker, Inc.

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Integer Programming Mar 01 2024 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.

Mathematical Programming with Data Perturbations Dec 30 2023 Presents research contributions and tutorial expositions on current methodologies for sensitivity, stability and approximation analyses of mathematical programming and related problem structures involving parameters. The text features up-to-date findings on important topics, covering such areas as the effect of perturbations on the performance of algorithms, approximation techniques for optimal control problems, and global error bounds for convex inequalities.

Mathematical Programming with Data Perturbations II, Second Edition May 30 2021

On Problems of Distance, Convex Sets and Mathematical Programming Apr 21 2023

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Python Programming in Context Feb 05 2022 "The user-friendly, object-oriented programming language Python is quickly becoming the most popular introductory programming language for both students and instructors ... Building on essential concepts of computer science and offering a plentitude of real-world examples, Python programming in context, Second edition offers a thorough overview of multiple applied areas, including image processing, cryptography, astronomy, the Internet, and bioinformatics. The text's emphasis on problem solving, extrapolation, and development of independent exploration and solution building provides students with a unique and innovative approach to learning programming." --

[*Mathematical programming / A*] ; *Mathematical programming. Series A / a publ. of the Mathematical Programming Society : MPA* Jan 19 2023

Mathematical Programming in Practice Dec 18 2022

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Programming for Engineers Nov 16 2022 To learn to program is to be initiated into an entirely new way of thinking about engineering, mathematics, and the world in general. Computation is integral to all modern engineering disciplines, so the better you are at programming, the better you will be in your chosen field. The author departs radically from the typical presentation by teaching concepts and techniques in a rigorous manner rather than listing how to use libraries and functions. He presents pointers in the very first chapter as part of the development of a computational model that facilitates an ab initio presentation of subjects such as function calls, call-by-reference, arrays, the stack, and the heap. The model also allows students to practice the essential skill of memory manipulation throughout the entire course rather than just at the end. As a result, this textbook goes further than is typical for a one-semester course -- abstract data types and linked lists, for example, are covered in depth. The computational model will also serve students in their adventures with programming beyond the course: instead of falling back on rules, they can think through the model to decide how a new programming concept fits with what they already know. The book is appropriate for undergraduate students of engineering and computer science, and graduate students of other disciplines. It contains many exercises integrated into the main text, and the author has made the source code available online.

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Approaches to Integer Programming Sep 26 2023 Branch and bound experiments in 0-1 programming; A subadditive approach to the group problem

of integer programming; Two computationally difficult set covering problems that arise in computing the 1-width of incidence matrices of Steiner triple systems; Lagrangean relaxation for integer programming; A heuristic algorithm for mixed-integer programming problems; On the group problem for mixed integer programming; Experiments in the formulation of integer programming problems.

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Mathematical Programming Study Sep 14 2022

Mathematical Programming Nov 28 2023 Mathematical Programming provides information pertinent to the developments in mathematical programming. This book covers a variety of topics, including integer programming, dynamic programming, game theory, nonlinear programming, and combinatorial equivalence. Organized into nine chapters, this book begins with an overview of optimization of very large-scale planning problems that can be achieved on significant problems. This text then introduces non-stationary policies and determines certain operating characteristics of the optimal policy for a very long planning horizon. Other chapters consider the perfect graph theorem by defining some well-known integer-valued functions of an arbitrary graph. This book discusses as well integer programming that deals with the class of mathematical programming problems in which some or all of the variables are required to be integers. The final chapter deals with the basic theorem of game theory. This book is a valuable resource for readers who are interested in mathematical programming. Mathematicians will also find this book useful.

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Introduction to Mathematical Programming Feb 17 2023

Mathematical Programming Approaches to Machine Learning and Data Mining Jul 25 2023

Mathematical Programming Apr 09 2022 Mathematical Programming, a branch of Operations Research, is perhaps the most efficient technique in making optimal decisions. This self-contained book is an overview of mathematical programming from its origins. It is suitable both as a text and as a reference.

Mathematical Programming Study Oct 04 2021

Foundations of Mathematical Programming Oct 16 2022 Matrix algebra; Optimization with calculus; Systems of linear equations; Introduction to linear programming; The simplex algorithm; Special forms of linear programming problems; Search procedures.

Computational Practice in Mathematical Programming Nov 04 2021

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Recent Developments in Mathematical Programming Apr 02 2024 This book is concerned with theoretical developments in the area of mathematical programming including new algorithms (analytic and heuristic) and their applications in science and industry. It exposes recent mathematical developments to a larger audience in science and industry who may not be equipped with the necessary research background and provides good references in many branches of mathematical programming. The text includes research and tutorial papers giving details of use of recent developments in applied areas, as well as review and state-of-the-art papers providing a source of references to researchers in this field.

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