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Introduction to Mathematical Programming-Wayne L. Winston 1995 Focusing on deterministic models, this book is designed for the first half of an operations research course. A subset of Winston's best-selling Operations Research, Introduction to Mathematical Programming offers self-contained chapters that make it flexible enough for one- or two-semester courses ranging from advanced beginning to intermediate in level. Appropriate for undergraduate majors, MBAs, and graduate students, it emphasizes model-formulations and model-building skills as well as interpretation of computer software output. LINDO, GINO, and LINGO software packages are available with the book in Windows, Macintosh, or DOS versions. Linear algebra prerequisite.

Introduction to Probability Models-Wayne L. Winston 2003-08 The Student Solutions Manual includes solutions to selected problems in the book.

Student Solutions Manual for Winston and Venkataramanan's Introduction to Mathematical Programming, Fourth Edition-Wayne L. Winston 2003 The student solutions manual provides worked out solutions to 1/3 of the problems in the text.

Solutions Manual: Operations Research-Wayne L. Winston 1994

Introduction to Mathematical Programming-Russell C. Walker 2012-12-04

Mathematical Programming-S. M. Sinha 2005-01-01 Mathematical Programming, a branch of Operations Research, is perhaps the most efficient technique in making optimal decisions. It has a very wide application in the analysis of management problems, in business and industry, in economic studies, in military problems and in many other fields of our present day activities. In this keen competitive world, the problems are getting more and more complicated and efforts are being made to deal with these challenging problems. This book presents from the origin to the recent developments in mathematical programming. The book has wide coverage and is self-contained. It is suitable both as a text and as a reference. \* A wide ranging all encompassing overview of mathematical programming from its origins to recent developments \* A result of over thirty years of teaching experience in this field \* A self-contained guide suitable both as a text and as a reference

Decomposition Techniques in Mathematical Programming-Antonio J. Conejo 2006-04-28 Optimization plainly dominates the design, planning, operation, and control of engineering systems. This is a book on optimization that considers particular cases of optimization problems, those with a decomposable structure that can be advantageously exploited. Those decomposable optimization problems are ubiquitous in engineering and science applications. The book considers problems with both complicating constraints and complicating variables, and analyzes linear and nonlinear problems, with and without integer variables. The decomposition techniques analyzed include Dantzig-Wolfe, Benders, Lagrangian relaxation, Augmented Lagrangian decomposition, and others. Heuristic techniques are also considered. Additionally, a comprehensive sensitivity analysis for characterizing the solution of optimization problems is carried out. This material is particularly novel and of high practical interest. This book is built based on many clarifying, illustrative, and computational examples, which facilitate the learning procedure. For the sake of clarity, theoretical concepts and computational algorithms are assembled based on these examples. The results are simplicity, clarity, and easy-learning. We feel that this book is needed by the engineering community that has to tackle complex optimization problems, particularly by practitioners and researchers in Engineering, Operations Research, and Applied Economics. The descriptions of most decomposition techniques are available only in complex and specialized mathematical journals, difficult to understand by engineers. A book describing a wide range of decomposition techniques, emphasizing problem-solving, and appropriately blending theory and application, was not previously available.

MATLAB Programming-Dingyü Xue 2020-03-23 This book presents fundamentals in MATLAB programming, including data and statement structures, control structures, function writing and debugging in MATLAB programming, followed by the presentations of algebraic computation, transcendental function evaluations and data processing. Advanced topics such as MATLAB interfacing, object-oriented programming and graphical user interface design are also addressed.

Mathematical Programming-Melvyn Jeter 1986-05-01 This book serves as an introductory text in mathematical programming and optimization for students having a mathematical background that includes one semester of linear algebra and a complete calculus sequence. It includes computational examples to aid students develop computational skills.

A Friendly Introduction to Mathematical Logic-Christopher C. Leary 2015 At the intersection of mathematics, computer science, and philosophy, mathematical logic examines the power and limitations of formal mathematical thinking. In this expansion of Leary's user-friendly 1st edition, readers with no previous study in the field are introduced to the basics of model theory, proof theory, and computability theory. The text is designed to be used either in an upper division undergraduate classroom, or for self study. Updating the 1st Edition's treatment of languages, structures, and deductions, leading to rigorous proofs of Godel's First and Second Incompleteness Theorems, the expanded 2nd Edition includes a new introduction to incompleteness through computability as well as solutions to selected exercises.

Applied Mathematical Programming-Stephen P. Bradley 1977 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.

Building and Solving Mathematical Programming Models in Engineering and Science-Enrique Castillo 2011-10-24 Fundamental concepts of mathematical modeling Modeling is one of the most effective, commonly used tools in engineering and the applied sciences. In this book, the authors deal with mathematical programming models both linear and nonlinear and across a wide range of practical applications. Whereas other books concentrate on standard methods of analysis, the authors focus on the power of modeling methods for solving practical problems—clearly showing the connection between physical and mathematical realities—while also describing and exploring the main concepts and tools at work. This highly computational coverage includes: \* Discussion and implementation of the GAMS programming system \* Unique coverage of compatibility \* Illustrative examples that showcase the connection between model and reality \* Practical problems covering a wide range of scientific disciplines, as well as hundreds of examples and end-of-chapter exercises \* Real-world applications to probability and statistics, electrical engineering, transportation systems, and more Building and Solving Mathematical Programming Models in Engineering and Science is practically suited for use as a professional reference for mathematicians, engineers, and applied or industrial scientists, while also tutorial and illustrative enough for advanced students in mathematics or engineering.

An Introduction to Linear Programming and Game Theory-Paul R. Thie 2011-09-15 Praise for the Second Edition: "This is quite a well-done book: very tightly organized, better-than-average exposition, and numerous examples, illustrations, and applications." —Mathematical Reviews of the American Mathematical Society An Introduction to Linear Programming and Game Theory, Third Edition presents a rigorous, yet accessible, introduction to the theoretical concepts and computational techniques of linear programming and game theory. Now with more extensive modeling exercises and detailed integer programming examples, this book uniquely illustrates how mathematics can be used in real-world applications in the social, life, and managerial sciences, providing readers with the opportunity to develop and apply their analytical abilities when solving realistic problems. This Third Edition addresses various new topics and improvements in the field of mathematical programming, and it also presents two software programs, LP Assistant and the Solver add-in for Microsoft Office Excel, for solving linear programming problems. LP Assistant, developed by coauthor Gerard Keough, allows readers to perform the basic steps of the algorithms provided in the book and is freely available via the book's related Web site. The use of the sensitivity analysis report and integer programming algorithm from the Solver add-in for Microsoft Office Excel is introduced so readers can solve the book's linear and integer programming problems. A detailed appendix contains instructions for the use of both applications. Additional features of the Third Edition include: A discussion of sensitivity analysis for the two-variable problem,

along with new examples demonstrating integer programming, non-linear programming, and make vs. buy models. Revised proofs and a discussion on the relevance and solution of the dual problem. A section on developing an example in Data Envelopment Analysis. An outline of the proof of John Nash's theorem on the existence of equilibrium strategy pairs for non-cooperative, non-zero-sum games. Providing a complete mathematical development of all presented concepts and examples, *Introduction to Linear Programming and Game Theory, Third Edition* is an ideal text for linear programming and mathematical modeling courses at the upper-undergraduate and graduate levels. It also serves as a valuable reference for professionals who use game theory in business, economics, and management science.

*Introduction to Mathematical Programming*-Benjamin Lev 1982

*Operations Research*-Wayne L. Winston 1996-11 This book is intended to be used as an advanced beginning or an intermediate text in operations research, management science, or mathematical programming.

*A Programmer's Introduction to Mathematics*-Jeremy Kun 2020-05-17 *A Programmer's Introduction to Mathematics* uses your familiarity with ideas from programming and software to teach mathematics. You'll learn about the central objects and theorems of mathematics, including graphs, calculus, linear algebra, eigenvalues, optimization, and more. You'll also be immersed in the often unspoken cultural attitudes of mathematics, learning both how to read and write proofs while understanding why mathematics is the way it is. Between each technical chapter is an essay describing a different aspect of mathematical culture, and discussions of the insights and meta-insights that constitute mathematical intuition. As you learn, we'll use new mathematical ideas to create wondrous programs, from cryptographic schemes to neural networks to hyperbolic tessellations. Each chapter also contains a set of exercises that have you actively explore mathematical topics on your own. In short, this book will teach you to engage with mathematics. *A Programmer's Introduction to Mathematics* is written by Jeremy Kun, who has been writing about math and programming for 10 years on his blog "Math Intersect Programming." As of 2020, he works in datacenter optimization at Google. The second edition includes revisions to most chapters, some reorganized content and rewritten proofs, and the addition of three appendices.

*Introduction to Mathematical Statistics and Its Applications: Pearson New International Edition*-Richard J. Larsen 2013-08-28 Noted for its integration of real-world data and case studies, this text offers sound coverage of the theoretical aspects of mathematical statistics. The authors demonstrate how and when to use statistical methods, while reinforcing the calculus that students have mastered in previous courses. Throughout the Fifth Edition, the authors have added and updated examples and case studies, while also refining existing features that show a clear path from theory to practice.

*Introduction to Mathematical Programming*-N. K. Kwak 1987 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.

*Introduction to Recursive Programming*-Manuel Rubio-Sanchez 2017-10-05 Recursion is one of the most fundamental concepts in computer science and a key programming technique that allows computations to be carried out repeatedly. Despite the importance of recursion for algorithm design, most programming books do not cover the topic in detail, despite the fact that numerous computer programming professors and researchers in the field of computer science education agree that recursion is difficult for novice students. *Introduction to Recursive Programming* provides a detailed and comprehensive introduction to recursion. This text will serve as a useful guide for anyone who wants to learn how to think and program recursively, by analyzing a wide variety of computational problems of diverse difficulty. It contains specific chapters on the most common types of recursion (linear, tail, and multiple), as well as on algorithm design paradigms in which recursion is prevalent (divide and conquer, and backtracking). Therefore, it can be used in introductory programming courses, and in more advanced classes on algorithm design. The book also covers lower-level topics related to iteration and program execution, and includes a rich chapter on the theoretical analysis of the computational cost of recursive programs, offering readers the possibility to learn some basic mathematics along the way. It also incorporates several elements aimed at helping students master the material. First, it contains a larger collection of simple problems in order to provide a solid foundation of the core concepts, before diving into more complex material. In addition, one of the book's main assets is the use of a step-by-step methodology, together with specially designed diagrams, for guiding and illustrating the process of developing recursive algorithms. Furthermore, the book covers combinatorial problems and mutual recursion. These topics can broaden students' understanding of recursion by forcing them to apply the learned concepts differently, or in a more sophisticated manner. The code examples have been written in Python 3, but should be straightforward to understand for students with experience in other programming languages. Finally, worked out solutions to over 120 end-of-chapter exercises are available for instructors.

*An Introduction to MATLAB® Programming and Numerical Methods for Engineers*-Timmy Siau 2014-04-05 Assuming no prior background in linear algebra or real analysis, *An Introduction to MATLAB® Programming and Numerical Methods for Engineers* enables you to develop good computational problem solving techniques through the use of numerical methods and the MATLAB® programming environment. Part One introduces fundamental programming concepts, using simple examples to put new concepts quickly into practice. Part Two covers the fundamentals of algorithms and numerical analysis at a level allowing you to quickly apply results in practical settings. Tips, warnings, and "try this" features within each chapter help the reader develop good programming practices. Chapter summaries, key terms, and functions and operators lists at the end of each chapter allow for quick access to important information. At least three different types of end of chapter exercises — thinking, writing, and coding — let you assess your understanding and practice what you've learned.

*Optimization in Medicine and Biology*-Gino J. Lim 2008-01-08 Thanks to recent advancements, optimization is now recognized as a crucial component in research and decision-making across a number of fields. Through optimization, scientists have made tremendous advances in cancer treatment planning, disease control, and drug development, as well as in sequencing DNA, and identifying protein structures. *Optimization in Medicine and Biology* provides researchers with a comprehensive, single-source reference that will enable them to apply the very latest optimization techniques to their work. With contributions from pioneering international experts this volume integrates strong foundational theory, good modeling techniques, and efficient and robust algorithms with relevant applications. Divided into two sections, the first begins with mathematical programming techniques for medical decision making processes and demonstrates their application to optimizing pediatric vaccine formularies, kidney paired donation, and the cost-effectiveness of HIV programs. It also presents recent advances in cancer treatment planning models and solution algorithms, including three-dimensional conventional conformal radiation therapy (3DCRT), intensity modulated radiation therapy (IMRT), tomotherapy, and proton therapy. Part two focuses on optimization in biology and discusses computational algorithms for genomic analysis; probe design and selection, properties of probes, and various algorithms and software packages to aid in probe selection and design. Subsequent chapters introduce a new dihedral angle measure for protein secondary prediction, and an optimization approach for tumor virotherapy with recombinant measles viruses. The editors include a short tutorial appendix on Integer Programming (IP). Highlighting the most recent advances in optimization techniques for solving complex problems in medical research, this book facilitates strong collaborative environments among optimization researchers and medical professionals for future medical research.

*Optimization Models*-Giuseppe C. Calafiore 2014-10-31 This accessible textbook demonstrates how to recognize, simplify, model and solve optimization problems - and apply these principles to new projects.

*Applied Integer Programming*-Der-San Chen 2011-09-20 An accessible treatment of the modeling and solution of integer programming problems, featuring modern applications and software. In order to fully comprehend the algorithms associated with integer programming, it is important to understand not only how algorithms work, but also why they work. *Applied Integer Programming* features a unique emphasis on this point, focusing on problem modeling and solution using commercial software. Taking an application-oriented approach, this book addresses the art and science of mathematical modeling related to the mixed integer programming (MIP) framework and discusses the algorithms and associated practices that enable those models to be solved most efficiently. The book begins with coverage of successful applications, systematic modeling procedures, typical model types, transformation of non-MIP models, combinatorial optimization problem models, and automatic preprocessing to obtain a better formulation. Subsequent chapters present algebraic and geometric basic concepts of linear programming theory and network flows needed for understanding integer programming. Finally, the book concludes with classical and modern solution approaches as well as the key components for building an integrated software system capable of solving large-scale integer programming and combinatorial optimization problems. Throughout the book, the authors demonstrate essential concepts through numerous examples and figures. Each new concept or algorithm is accompanied by a numerical example, and, where applicable, graphics are used to draw together diverse problems or approaches into a unified whole. In addition, features of solution approaches found in today's commercial software are identified throughout the book. Thoroughly classroom-tested, *Applied Integer Programming* is an excellent book for integer programming courses at the upper-undergraduate and graduate levels. It also serves as a well-organized reference for professionals, software developers, and analysts who work in the fields of applied mathematics, computer science, operations research, management science, and engineering and use integer-programming techniques to model and solve real-world optimization problems.

*Introductory Mathematical Analysis for Business, Economics, and the Life and Social Sciences: Pearson New International Edition*-Ernest F Haeussler 2013-08-27 This book is ideal for one- or two-semester or two- or three-quarter courses covering topics in college algebra, finite mathematics, and calculus for students in business, economics, and the life and social sciences. Haeussler, Paul, and Wood establish a strong algebraic foundation that sets this text apart

from other applied mathematics texts, paving the way for students to solve real-world problems that use calculus. Emphasis on developing algebraic skills is extended to the exercises—including both drill problems and applications. The authors work through examples and explanations with a blend of rigor and accessibility. In addition, they have refined the flow, transitions, organization, and portioning of the content over many editions to optimize manageability for teachers and learning for students. The table of contents covers a wide range of topics efficiently, enabling instructors to tailor their courses to meet student needs.

An Introduction to Functional Programming Through Lambda Calculus-Greg Michaelson 2013-04-10 Well-respected text for computer science students provides an accessible introduction to functional programming. Cogent examples illuminate the central ideas, and numerous exercises offer reinforcement. Includes solutions. 1989 edition.

Optimization Methods in Finance-Gerard Cornuejols 2006-12-21 Optimization models play an increasingly important role in financial decisions. This is the first textbook devoted to explaining how recent advances in optimization models, methods and software can be applied to solve problems in computational finance more efficiently and accurately. Chapters discussing the theory and efficient solution methods for all major classes of optimization problems alternate with chapters illustrating their use in modeling problems of mathematical finance. The reader is guided through topics such as volatility estimation, portfolio optimization problems and constructing an index fund, using techniques such as nonlinear optimization models, quadratic programming formulations and integer programming models respectively. The book is based on Master's courses in financial engineering and comes with worked examples, exercises and case studies. It will be welcomed by applied mathematicians, operational researchers and others who work in mathematical and computational finance and who are seeking a text for self-learning or for use with courses.

Puzzles, Paradoxes, and Problem Solving-Marilyn A. Reba 2014-12-15 A Classroom-Tested, Alternative Approach to Teaching Math for Liberal Arts Puzzles, Paradoxes, and Problem Solving: An Introduction to Mathematical Thinking uses puzzles and paradoxes to introduce basic principles of mathematical thought. The text is designed for students in liberal arts mathematics courses. Decision-making situations that progress from recreational problems to important contemporary applications develop the critical-thinking skills of non-science and non-technical majors. The logical underpinnings of this textbook were developed and refined throughout many years of classroom feedback and in response to commentary from presentations at national conferences. The text's five units focus on graphs, logic, probability, voting, and cryptography. The authors also cover related areas, such as operations research, game theory, number theory, combinatorics, statistics, and circuit design. The text uses a core set of common representations, strategies, and algorithms to analyze diverse games, puzzles, and applications. This unified treatment logically connects the topics with a recurring set of solution approaches. Requiring no mathematical prerequisites, this book helps students explore creative mathematical thinking and enhance their own critical-thinking skills. Students will acquire quantitative literacy and appreciation of mathematics through the text's unified approach and wide range of interesting applications.

Understanding and Using Linear Programming-Jiri Matousek 2007-07-04 The book is an introductory textbook mainly for students of computer science and mathematics. Our guiding phrase is "what every theoretical computer scientist should know about linear programming". A major focus is on applications of linear programming, both in practice and in theory. The book is concise, but at the same time, the main results are covered with complete proofs and in sufficient detail, ready for presentation in class. The book does not require more prerequisites than basic linear algebra, which is summarized in an appendix. One of its main goals is to help the reader to see linear programming "behind the scenes".

Nonlinear Programming-Lorenz T. Biegler 2010 This book addresses modern nonlinear programming (NLP) concepts and algorithms, especially as they apply to challenging applications in chemical process engineering. The author provides a firm grounding in fundamental NLP properties and algorithms, and relates them to real-world problem classes in process optimization, thus making the material understandable and useful to chemical engineers and experts in mathematical optimization.

Introduction to Linear Optimization-Dimitris Bertsimas 1997-01-01

Introduction To Algorithms-Thomas H. Cormen 2001 An extensively revised edition of a mathematically rigorous yet accessible introduction to algorithms.

An Introduction to Mathematical Programming for Accountants-Bryan Carsberg 1969

Introduction to Programming Using SML-Michael R. Hansen 1999 An introductory programming textbook for students using SML. The text teaches SML program design based on a set of simple, clean and powerful concepts. It emphasizes mathematical structures, modelling and abstraction as a basis for programming.

History of Mathematical Programming-J. K. Lenstra 1991 The historical span of mathematical programming, from its conception to its present flourishing state is remarkably short. The 1940's and 1950's were an exciting period when there was a great deal of research activity, but the growth of the field during the 1960's and 1970's worldwide already appears to be of historical interest too, because much of the progress during that time has had an important influence on present-day research. In this volume some pioneers of the field, as well as some prominent younger colleagues, have put their personal recollections in writing. The contributions bear witness to a time of impressive scientific progress, in which the rich new field of mathematical programming was detected and brought up.

A Primer on Scientific Programming with Python-Hans Petter Langtangen 2016-07-28 The book serves as a first introduction to computer programming of scientific applications, using the high-level Python language. The exposition is example and problem-oriented, where the applications are taken from mathematics, numerical calculus, statistics, physics, biology and finance. The book teaches "Matlab-style" and procedural programming as well as object-oriented programming. High school mathematics is a required background and it is advantageous to study classical and numerical one-variable calculus in parallel with reading this book. Besides learning how to program computers, the reader will also learn how to solve mathematical problems, arising in various branches of science and engineering, with the aid of numerical methods and programming. By blending programming, mathematics and scientific applications, the book lays a solid foundation for practicing computational science. From the reviews: Langtangen ... does an excellent job of introducing programming as a set of skills in problem solving. He guides the reader into thinking properly about producing program logic and data structures for modeling real-world problems using objects and functions and embracing the object-oriented paradigm. ... Summing Up: Highly recommended. F. H. Wild III, Choice, Vol. 47 (8), April 2010 Those of us who have learned scientific programming in Python 'on the streets' could be a little jealous of students who have the opportunity to take a course out of Langtangen's Primer." John D. Cook, The Mathematical Association of America, September 2011 This book goes through Python in particular, and programming in general, via tasks that scientists will likely perform. It contains valuable information for students new to scientific computing and would be the perfect bridge between an introduction to programming and an advanced course on numerical methods or computational science. Alex Small, IEEE, CiSE Vol. 14 (2), March /April 2012 "This fourth edition is a wonderful, inclusive textbook that covers pretty much everything one needs to know to go from zero to fairly sophisticated scientific programming in Python..." Joan Horvath, Computing Reviews, March 2015

Computers and Mathematical Programming-William Wallace White 1978

An Introduction to Programming and Numerical Methods in MATLAB-Steve Otto 2005-12-06 An elementary first course for students in mathematics and engineering Practical in approach: examples of code are provided for students to debug, and tasks - with full solutions - are provided at the end of each chapter Includes a glossary of useful terms, with each term supported by an example of the syntaxes commonly encountered

Introduction to Applied Linear Algebra-Stephen Boyd 2018-06-07 A groundbreaking introduction to vectors, matrices, and least squares for engineering applications, offering a wealth of practical examples.

Fuzzy Mathematical Programming-Young-Jou Lai 2012-12-06 In the last 25 years, the fuzzy set theory has been applied in many disciplines such as operations research, management science, control theory, artificial intelligence/expert system, etc. In this volume, methods and applications of fuzzy mathematical programming and possibilistic mathematical programming are first systematically and thoroughly reviewed and classified. This state-of-the-art survey provides readers with a capsule look into the existing methods, and their characteristics and applicability to analysis of fuzzy and possibilistic programming problems. To realize practical fuzzy modelling, we present solutions for real-world problems including production/manufacturing, transportation, assignment, game, environmental management, resource allocation, project investment, banking/finance, and agricultural economics. To improve flexibility and robustness of fuzzy mathematical programming techniques, we also present our expert decision-making support system IFLP which considers and solves all possibilities of a specific domain of (fuzzy) linear programming problems. Basic fuzzy set theories, membership functions, fuzzy decisions, operators and fuzzy arithmetic are introduced with simple numerical examples in an easy-to-read and easy-to-follow manner. An updated bibliographical listing of 60 books, monographs or conference proceedings, and about 300 selected papers, reports or theses is presented in the end of this study.

Mathematical Programming Techniques-Nirmal Singh Kambo 1984

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