

DOR II  
 Fall 2015  
 Homework 2  
 Due in Canvas - Friday, September 18<sup>th</sup>, 5pm

Submit solution electronically with the filename as follows: *lastname\_PID\_HW2.pdf*

Honor code is in effect. You may discuss with others, but you need to self-generate your own solution. Solutions that match solution manuals, other student work, or are otherwise obvious violations will be submitted to the honor system.

Section 9.2

1. Problem 4
2. Problem 11
3. Problem 12
4. Problem 20 - Solve in either LINDO/LINGO or Excel
5. Problem 32

Additional Problems:

6. Problem 7

Solutions:

4. The statement  $(x_2 + x_3 = 2 \text{ implies } x_4 = 1)$  is equivalent to  
 $x_2 + x_3 > 1 \text{ implies } x_4 \geq 1$   
 Reference textbook equations (28) and (29) and add the constraints (big M = 1 is sufficient here)

$$\begin{array}{ll} y = 0 \text{ or } 1 & \\ 1 - x_4 \leq y & \text{or } x_4 \geq 1 - y \\ x_2 + x_3 - 1 \leq (1 - y) & \text{or } x_2 + x_3 \leq 2 - y \end{array}$$

Also, ...

Since  $x$ -variables are binary, it can be modeled without an extra binary variable:  $x_2 + x_3 \leq 1 + x_4$  or  $x_2 + x_3 - 1 + x_4 \leq 0$

11. We have that  $x < 3$  (or  $3 - x > 0$ ) implies  $y \leq 3$  (or  $3 - y \geq 0$ ). From (28) and (29) we see that the following constraints are needed:  
 $y - 3 \leq Mx$ ,  $3 - x \leq (1 - y)M$ ,  $x = 0$  or  $1$ ,  $M$  a large number.

Alternatively,

$$\begin{array}{l} x \leq 2 + My \\ y \leq 3 + Mx \\ x \geq 3(1 - y) \\ y \text{ is binary, } M \text{ is large number} \end{array}$$

12. Let  $y_1 = 1$  if NY is used,  $y_2 = 1$  if LA is used,  $y_3 = 1$  if Chicago is used,  $y_4 = 1$  if Atlanta is used. Also  $y_i = 0$  if city  $i$  is not used. Define  $x_{ij}$  = units shipped from warehouse in city  $i$  to region  $j$

$$\min z = 400y_1 + 500y_2 + 300y_3 + 150y_4 + 20x_{11} + 40x_{12} + 50x_{13} + 48x_{21} + 15x_{22} + 26x_{23} + 26x_{31} + 35x_{32} + 18x_{33} + 24x_{41} + 50x_{42} + 35x_{43}$$

$$\text{st } x_{11} + x_{21} + x_{31} + x_{41} \geq 80, x_{12} + x_{22} + x_{32} + x_{42} \geq 70$$

$$x_{13} + x_{23} + x_{33} + x_{43} \geq 90, x_{11} + x_{12} + x_{13} \leq 100y_1$$

# Deterministic Operations Research Solutions

**N Colangelo**

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red semi-circular shape behind it.

## **Deterministic Operations Research Solutions:**

**Deterministic Operations Research** David J. Rader, 2013-06-07 Uniquely blends mathematical theory and algorithm design for understanding and modeling real world problems Optimization modeling and algorithms are key components to problem solving across various fields of research from operations research and mathematics to computer science and engineering Addressing the importance of the algorithm design process Deterministic Operations Research focuses on the design of solution methods for both continuous and discrete linear optimization problems The result is a clear cut resource for understanding three cornerstones of deterministic operations research modeling real world problems as linear optimization problem designing the necessary algorithms to solve these problems and using mathematical theory to justify algorithmic development Treating real world examples as mathematical problems the author begins with an introduction to operations research and optimization modeling that includes applications from sports scheduling in the airline industry Subsequent chapters discuss algorithm design for continuous linear optimization problems covering topics such as convexity Farkas Lemma and the study of polyhedral before culminating in a discussion of the Simplex Method The book also addresses linear programming duality theory and its use in algorithm design as well as the Dual Simplex Method Dantzig Wolfe decomposition and a primal dual interior point algorithm The final chapters present network optimization and integer programming problems highlighting various specialized topics including label correcting algorithms for the shortest path problem preprocessing and probing in integer programming lifting of valid inequalities and branch and cut algorithms Concepts and approaches are introduced by outlining examples that demonstrate and motivate theoretical concepts The accessible presentation of advanced ideas makes core aspects easy to understand and encourages readers to understand how to think about the problem not just what to think Relevant historical summaries can be found throughout the book and each chapter is designed as the continuation of the story of how to both model and solve optimization problems by using the specific problems linear and integer programs as guides The book's various examples are accompanied by the appropriate models and calculations and a related Web site features these models along with Maple™ and MATLAB content for the discussed calculations Thoroughly class tested to ensure a straightforward hands on approach Deterministic Operations Research is an excellent book for operations research of linear optimization courses at the upper undergraduate and graduate levels It also serves as an insightful reference for individuals working in the fields of mathematics engineering computer science and operations research who use and design algorithms to solve problem in their everyday work

**Deterministic Operations Research** David J. Rader, 2010-09-07 Uniquely blends mathematical theory and algorithm design for understanding and modeling real world problems Optimization modeling and algorithms are key components to problem solving across various fields of research from operations research and mathematics to computer science and engineering Addressing the importance of the algorithm design process Deterministic Operations Research focuses on the

design of solution methods for both continuous and discrete linear optimization problems The result is a clear cut resource for understanding three cornerstones of deterministic operations research modeling real world problems as linear optimization problem designing the necessary algorithms to solve these problems and using mathematical theory to justify algorithmic development Treating real world examples as mathematical problems the author begins with an introduction to operations research and optimization modeling that includes applications form sports scheduling an the airline industry Subsequent chapters discuss algorithm design for continuous linear optimization problems covering topics such as convexity Farkas Lemma and the study of polyhedral before culminating in a discussion of the Simplex Method The book also addresses linear programming duality theory and its use in algorithm design as well as the Dual Simplex Method Dantzig Wolfe decomposition and a primal dual interior point algorithm The final chapters present network optimization and integer programming problems highlighting various specialized topics including label correcting algorithms for the shortest path problem preprocessing and probing in integer programming lifting of valid inequalities and branch and cut algorithms Concepts and approaches are introduced by outlining examples that demonstrate and motivate theoretical concepts The accessible presentation of advanced ideas makes core aspects easy to understand and encourages readers to understand how to think about the problem not just what to think Relevant historical summaries can be found throughout the book and each chapter is designed as the continuation of the story of how to both model and solve optimization problems by using the specific problems linear and integer programs as guides The book s various examples are accompanied by the appropriate models and calculations and a related Web site features these models along with Maple™ and MATLAB content for the discussed calculations Thoroughly class tested to ensure a straightforward hands on approach Deterministic Operations Research is an excellent book for operations research of linear optimization courses at the upper undergraduate and graduate levels It also serves as an insightful reference for individuals working in the fields of mathematics engineering computer science and operations research who use and design algorithms to solve problem in their everyday work

**Operations Research: Algorithms And Applications** Rathindra P. Sen, 2010-01-30 It covers all the relevant topics along with the recent developments in the field The book begins with an overview of operations research and then discusses the simplex method of optimization and duality concept along with the deterministic models such as post optimality analysis transportation and assignment models While covering hybrid models of operations research the book elaborates PERT Programme Evaluation and Review Technique CPM Critical Path Method dynamic programming inventory control models simulation techniques and their applications in mathematical modelling and computer programming It explains the decision theory game theory queueing theory sequencing models replacement and reliability problems information theory and Markov processes which are related to stochastic models Finally this well organized book describes advanced deterministic models that include goal programming integer programming and non linear programming [Problems in Operations Research](#)

(Principles and Solutions) D S Hira,1995 We take great pleasure in presenting to the readers the second thoroughly revised edition of the book after a number of reprints The suggestions received from the readers have been carefully incorporated in this edition and almost the entire subject matter has been reorganised revised and rewritten

**Operations Research and Enterprise Systems** Greg H. Parlier,Federico Liberatore,Marc Demange,2022-07-29 This book includes extended and revised versions of selected papers from the 9th and 10th edition of the International Conference on Operations Research and Enterprise Systems ICORES 2020 and ICORES 2021 ICORES 2020 was held in Valletta Malta from 22 24 of February 2020 and ICORES 2021 was held as an online event due to the Covid 19 pandemic from 4 6 of February 2021 The 11 full papers included in this book were carefully reviewed and selected from 132 submissions The ICORES 2020 and 2021 book contains extended and revised version of proceedings papers dealing with operations research and enterprise systems

*Operations Research and Big Data* Ana Paula Ferreira Dias Barbosa Póvoa,Joao Luis de Miranda,2015-09-11 The development of Operations Research OR requires constant improvements such as the integration of research results with business applications and innovative educational practice The full deployment and commercial exploitation of goods and services generally need the construction of strong synergies between educational institutions and businesses The IO2015 XVII Congress of APDIO aims at strengthening the knowledge triangle in education research and innovation in order to maximize the contribution of OR for sustainable growth the promoting of a knowledge based economy and the smart use of finite resources The IO2015 XVII Congress of APDIO is a privileged meeting point for the promotion and dissemination of OR and related disciplines through the exchange of ideas among teachers researchers students and professionals with different background but all sharing a common desire that is the development of OR

OPTIMIZATION AND OPERATIONS RESEARCH - Volume III Ulrich Derigs,2009-02-09 Optimization and Operations Research is a component of Encyclopedia of Mathematical Sciences in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The Theme on Optimization and Operations Research is organized into six different topics which represent the main scientific areas of the theme 1 Fundamentals of Operations Research 2 Advanced Deterministic Operations Research 3 Optimization in Infinite Dimensions 4 Game Theory 5 Stochastic Operations Research 6 Decision Analysis which are then expanded into multiple subtopics each as a chapter These four volumes are aimed at the following five major target audiences University and College students Educators Professional Practitioners Research Personnel and Policy Analysts Managers and Decision Makers and NGOs

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**Optimization Theory, Decision Making, and Operations Research Applications** Athanasios Migdalas, Angelo Sifaleras, Christos K Georgiadis, Jason Papathanasiou, Emmanouil Stiakakis, 2012-11-28 These proceedings consist of 30 selected research papers based on results presented at the 10th Balkan Conference 1st International Symposium on Operational Research BALCOR 2011 held in Thessaloniki Greece September 22-24 2011 BALCOR is an established biennial conference attended by a large number of faculty researchers and students from the Balkan countries but also from other European and Mediterranean countries as well Over the past decade the BALCOR conference has facilitated the exchange of scientific and technical information on the subject of Operations Research and related fields such as Mathematical Programming Game Theory Multiple Criteria Decision Analysis Information Systems Data Mining and more in order to promote international scientific cooperation The carefully selected and refereed papers present important recent developments and modern applications and will serve as excellent reference for students researchers and practitioners in these disciplines

Introduction to Operations Research Billy E. Gillett, 1976

**Fuzzy Sets in Decision Analysis, Operations Research and Statistics** Roman Slowiński, 2012-12-06 Fuzzy Sets in Decision Analysis Operations Research and Statistics includes chapters on fuzzy preference modeling multiple criteria analysis ranking and sorting methods group decision making and fuzzy game theory It also presents optimization techniques such as fuzzy linear and non linear programming applications to graph problems and fuzzy combinatorial methods such as fuzzy dynamic programming In addition the book also accounts for advances in fuzzy data analysis fuzzy statistics and applications to reliability analysis These topics are covered within four parts Decision Making Mathematical Programming Statistics and Data Analysis and Reliability Maintenance and Replacement The scope and content of the book has resulted from multiple interactions between the editor of the volume the series editors the series advisory board and experts in each chapter area Each chapter was written by a well known researcher on the topic and reviewed by other experts in the area These expert reviewers sometimes became co authors because of the extent of their contribution to the chapter As a result twenty five authors from twelve countries and four continents were involved in the creation of the 13 chapters which enhances the international character of the project and gives an idea of how carefully the Handbook has been developed

OPTIMIZATION AND OPERATIONS RESEARCH - Volume I Ulrich Derigs, 2009-02-09 Optimization and Operations Research is a component of Encyclopedia of Mathematical Sciences in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The Theme on Optimization and Operations Research is organized into six different topics which represent the main scientific areas of the theme 1 Fundamentals of Operations Research 2 Advanced Deterministic

Operations Research 3 Optimization in Infinite Dimensions 4 Game Theory 5 Stochastic Operations Research 6 Decision Analysis which are then expanded into multiple subtopics each as a chapter These four volumes are aimed at the following five major target audiences University and College students Educators Professional Practitioners Research Personnel and Policy Analysts Managers and Decision Makers and NGOs

**Operations Research in Transportation Systems** A.S. Belenky, 2013-06-29 The scientific monograph of a survey kind presented to the reader's attention deals with fundamental ideas and basic schemes of optimization methods that can be effectively used for solving strategic planning and operations management problems related in particular to transportation This monograph is an English translation of a considerable part of the author's book with a similar title that was published in Russian in 1992 The material of the monograph embraces methods of linear and nonlinear programming nonsmooth and nonconvex optimization integer programming solving problems on graphs and solving problems with mixed variables routing scheduling solving network flow problems and solving the transportation problem stochastic programming multicriteria optimization game theory and optimization on fuzzy sets and under fuzzy goals optimal control of systems described by ordinary differential equations partial differential equations generalized differential equations differential inclusions and functional equations with a variable that can assume only discrete values and some other methods that are based on or adjoin to the listed ones

**Operations Research and Health Care Policy** Gregory S. Zaric, 2013-03-27 Operations research tools are ideally suited to providing solutions and insights for the many problems health policy maker's face Indeed a growing body of literature on health policy analysis based on operations research methods has emerged to address the problems mentioned above and several others The research in this field is often multi disciplinary being conducted by teams that include not only operations researchers but also clinicians economists and policy analysts The research is also often very applied focusing on a specific question driven by a decision maker and many times yielding a tool to assist in future decisions The goal of this volume was to bring together a group of papers by leading experts that could showcase the current state of the field of operations research applied to health care policy There are 18 chapters that illustrate the breadth of this field The chapters use a variety of techniques including classical operations research tools such as optimization queuing theory and discrete event simulation as well as statistics epidemic models and decision analytic models The book spans the field and includes work that ranges from highly conceptual to highly applied An example of the former is the chapter by Kimmel and Schackman on building policy models and an example of the latter is the chapter by Coyle and colleagues on developing a Markov model for use by an organization in Ontario that makes recommendations about the funding of new drugs The book also includes a mix of review chapters such as the chapter by Hutton on public health response to influenza outbreaks and original research such as the paper by Blake and colleagues analyzing a decision by Canadian Blood Services to consolidate services This volume could provide an excellent introduction to the field of operations research applied to health care policy and it could also serve as an

introduction to new areas for researchers already familiar with the topic The book is divided into six sections The first section contains two chapters that describe several different applications of operations research in health policy and provide an excellent overview of the field Sections 2 to 4 present policy models in three focused areas Section 5 contains two chapters on conceptualizing and building policy models The book concludes in Section 6 with two chapters describing work that was done with policy makers and presenting insights gained from working directly with policy makers

**Operations Research Proceedings 2024** Lukas Glomb,2025-09-12 This book contains a selection of peer reviewed papers presented at the International Conference on Operations Research OR 2024 held at the Technical University of Munich Germany from September 3 to 6 2024 Over 650 scientists from all over the world attended the OR 2024 in Munich Three plenaries and nine semi plenaries covered theoretical aspects of Operations Research applications and real world practices In addition more than 500 presentations were held over three days in up to 23 parallel sessions Covering a wide range of topics the book highlights cutting edge research and practical applications across various domains of modern operations research It places a special emphasis on the theme Data Learning and Optimization exploring how data driven approaches machine learning techniques and optimization strategies are shaping decision making processes and operational efficiency The contributions in this book reflect the diversity and innovation in the field making it a valuable resource for researchers practitioners and academics alike

**Essentials of Logistics and Supply Chain Management** Dr. Haniefuddin S,Shaik Shamshuddin Dr. Shaik Khadar Baba,2012-05-31 In today s competitive world the Customer satisfaction is one of the important objectives for any company or Business organization But to achieve this objective the Logistics and Supply Chain Management emerged as the ultimate tool The Main objectives of the Logistics and Supply Chain Management A Right Product Right Place Right Price Right Quality Right Quantity and in the hands of Right Customer To fulfill these objectives the Logistics like Generic Components as Procuring the Raw Materials from Tier suppliers Vendors Ordering Purchasing Processing Operating Branding Bulk Braking Transporting Ware Housing Material Handling Packaging Distributing to the Customer End user Gap Management Processing like Primary components of Manufacturing Project Management Supportive components like Physical Distribution Management with help of Channel Evaluation selection Channel Management etc play very vital role in reaching the product to the end user

**Operations Research** P. Rama Murthy,2007 *Decision and Prediction Analysis Powered With Operations Research* Bubevski, Vojo,2024-07-16 Organizations today face complex decisions and uncertainties that can have a profound impact on their financial stability and strategic direction Traditional decision making methods often fall short when it comes to addressing multifaceted issues like financing product manufacturing and facility location These challenges demand a robust framework that quantifies factors assesses risks and provides optimal solutions Without advanced tools and techniques businesses are at risk of making uninformed decisions that could lead to significant financial losses and missed opportunities The urgency to equip yourself with these tools is clear Decision and Prediction Analysis

Powered With Operations Research offers a comprehensive solution to these challenges This book integrates operations research techniques to reframe and solve complex business problems It provides a detailed exploration of decision analysis tools such as influence diagrams and decision trees which help visualize and assess various decision scenarios By applying these tools organizations can better understand uncertainties evaluate risks and make decisions that maximize expected utility and achieve strategic objectives *General Technical Report PNW-GTR ,2005* **Imaging Satellites Task**

**Planning** Yongming He,Yingwu Chen,2025-05-19 The continuous enhancement of platforms and payloads have enabled imaging satellites to obtain greater societal benefits while to bring challenges to imaging satellite task planning refinement of comprehensive control normalization of quick response and complication of constraints It is precisely because of the aforementioned changes and requirements the contradiction between algorithm versatility and efficiency between solution efficiency and accuracy are becoming increasingly acute In order to alleviate these two pairs of contradictions this book conducts research on imaging satellite task planning technology integrating with operations research and reinforcement learning Preliminary research on the design of imaging satellite task planning system bi level optimization model and learning based combinatorial optimization algorithms are conducted The effectiveness of the proposed method is verified in real world task planning scenarios of SuperView 1 constellation In other combinatorial optimization problems with complex constraints the methodology proposed in this book has enormous advantages and potential We aspire to stimulate the interest of readers in researching related scientific issues through this book

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