

OR II

Fall 2015

Homework 2

Due in Canvas - Friday, September 18th, 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

$x_2 + x_3 \geq 1$ implies $x_4 \geq 1$

Reference textbook equations (28) and (29) and add the constraints (big M = 1 is sufficient here)

$y = 0 \text{ or } 1$

$1 - x_4 \leq y$

$x_2 + x_3 - 1 \leq (1 - y)$

or $x_4 \geq 1 - y$

or $x_2 + x_3 \leq 2 - y$

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:

$y - 3 \leq Mx$, $3 - x \leq (1 - y)M$, $x = 0 \text{ or } 1$, M a large number.

Alternatively,

$$x \leq 2 + My$$

$$y \leq 3 + Mx$$

$$x \geq 3(1 - y)$$

y is binary, M is large number

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

$$\min z = 400y_1 + 500y_2 + 300y_3 + 150y_4 + 20x_{11} + 40x_{12} + 50x_{13} + 48x_{14} + 15x_{21} + 26x_{22} + 26x_{23} + 35x_{24} + 18x_{31} + 24x_{32} + 50x_{33} + 35x_{34}$$

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

$$x_{13} + x_{23} + x_{33} + x_{43} \geq 40, x_{14} + x_{24} + x_{34} \leq 100y_1$$

Deterministic Operations Research Solutions Manual

Ch3

Richard Chin, Bruce Y Lee

Deterministic Operations Research Solutions Manual Ch3:

Interfaces ,2002 An Introduction to Project Modeling and Planning Gündüz Ulusoy,Öncü Hazır,2021-04-05 This textbook teaches the basic concepts and methods of project management but also explains how to convert them to useful results in practice Project management offers a promising working area for theoretical and practical applications and developing software and decision support systems DSS This book specifically focuses on project planning and control with an emphasis on mathematical modeling Models and algorithms establish a good starting point for students to study the relevant literature and support pursuing academic work in related fields The book provides an introduction to theoretical concepts and it also provides detailed explanations application examples and case studies that deal with real life problems The chapter topics include questions that underlie critical thinking interpretation analytics and making comparisons Learning outcomes are defined and the content of the book is structured following these goals Chapter 1 begins by introducing the basic concepts methods and processes of project management This Chapter constitutes the base for defining and modeling project management problems Chapter 2 explores the fundamentals of organizing and managing projects from an organization's perspective Issues related to project team formation the role of project managers and organization types are discussed Chapter 3 is devoted to project planning and network modeling of projects covering fundamental concepts such as project scope Work Breakdown Structure WBS Organizational Breakdown Structure OBS Cost Breakdown Structure CBS project network modeling activity duration and cost estimating activity based costing ABC data and knowledge management Chapter 4 introduces deterministic scheduling models which can be used in constructing the time schedules Models employing time based and finance based objectives are introduced The CPM is covered The unconstrained version of maximizing Net Present Value NPV is also treated here together with the case of time dependent cash flows Chapter 5 focuses on the time cost trade off problem explaining how to reduce the duration of some of the activities and therefore reduce the project duration at the expense of additional costs This topic is addressed for both continuous and discrete cases Chapter 6 discusses models and methods of scheduling under uncertain activity durations PERT is introduced for minimizing the expected project duration and extended to the PERT Costing method for minimizing the expected project cost Simulation is presented as another approach for dealing with the uncertainty in activity durations and costs To demonstrate the use of the PERT a case study on constructing an earthquake resistant residential house is presented Classifications of resource and schedule types are given in Chapter 7 and exact and heuristic solution procedures for the single and multi mode resource constrained project scheduling problem RCPSP are presented The objective of maximizing NPV under resource constraints is addressed and the capital constrained project scheduling model is introduced In Chapter 8 resource leveling and further resource management problems are introduced Total adjustment cost and resource availability cost problems are introduced Various exact models are investigated A heuristic solution procedure for the resource leveling problem is presented in detail Also resource

portfolio management policies and the resource portfolio management problem are discussed A case study on resource leveling dealing with the annual audit project of a major corporation is presented Project contract types and payment schedules constitute the topics of Chapter 9 Contracts are legal documents reflecting the results of some form of client contractor negotiations and sometimes of a bidding process which deserve closer attention Identification and allocation of risk in contracts project control issues disputes and resolution management are further topics covered in this Chapter A bidding model is presented to investigate client contractor negotiations and the bidding process from different aspects Chapter 10 focuses on processes and methods for project monitoring and control Earned Value Management is studied to measure the project performance throughout the life of a project and to estimate the expected project time and cost based on the current status of the project How to incorporate inflation into the analysis is presented In Chapter 11 qualitative and quantitative techniques including decision trees simulation and software applications are introduced Risk phases are defined and building a risk register is addressed An example risk breakdown structure is presented The design of risk management processes is introduced and risk response planning strategies are discussed At the end of the Chapter the quantitative risk analysis is demonstrated at the hand of a team discussion case study Chapter 12 covers several models and approaches dealing with various stochastic aspects of the decision environment Stochastic models generation of robust schedules use of reactive and fuzzy approaches are presented Sensitivity and scenario analysis are introduced Also simulation analysis which is widely used to analyze the impacts of uncertainty on project goals is presented Chapter 13 addresses repetitive projects that involve the production or construction of similar units in batches such as railway cars or residential houses Particularly in the construction industry repetitive projects represent a large portion of the work accomplished in this sector of the economy A case study on the 50 km section of a motorway project is used for demonstrating the handling of repetitive project management How best to select one or more of a set of candidate projects to maintain a project portfolio is an important problem for project based organizations with limited resources The project selection problem is inherently a multi objective problem and is treated as such in Chapter 14 Several models and solution techniques are introduced A multi objective multi period project selection and scheduling model is presented A case study that addresses a project portfolio selection and scheduling problem for the construction of a set of dams in a region is presented Finally Chapter 15 discusses three promising research areas in project management in detail i Sustainability and Project Management ii Project Management in the Era of Big Data and iii the Fourth Industrial Revolution and the New Age Project Management We elaborate on the importance of sustainability in project management practices discuss how developments in data analytics might impact project life cycle management and speculate how the infinite possibilities of the Fourth Industrial Revolution and the new technologies will transform project management practices

Journal of the American Statistical Association American Statistical Association, 1976 A scientific and educational journal not only for professional statisticians but also for economists

business executives research directors government officials university professors and others who are seriously interested in the application of statistical methods to practical problems in the development of more useful methods and in the improvement of basic statistical data **Multi-Disciplinary Engineering for Cyber-Physical Production Systems**

Stefan Biffl,Arndt Lüder,Detlef Gerhard,2017-05-06 This book discusses challenges and solutions for the required information processing and management within the context of multi disciplinary engineering of production systems The authors consider methods architectures and technologies applicable in use cases according to the viewpoints of product engineering and production system engineering and regarding the triangle of 1 product to be produced by a 2 production process executed on 3 a production system resource With this book industrial production systems engineering researchers will get a better understanding of the challenges and requirements of multi disciplinary engineering that will guide them in future research and development activities Engineers and managers from engineering domains will be able to get a better understanding of the benefits and limitations of applicable methods architectures and technologies for selected use cases IT researchers will be enabled to identify research issues related to the development of new methods architectures and technologies for multi disciplinary engineering pushing forward the current state of the art **Improving Productivity In Health Care** Jack H.U.

Brown,Jacqueline Comola,2019-08-15 First Published in 1988 this book offers a full comprehensive guide to improving and streamlining productivity in health care Carefully compiled and filled with a vast repertoire of notes diagrams and references this book serves as a useful reference for students of medicine student nurses and other practitioners in their respective fields

Principles and Practice of Clinical Trial Medicine Richard Chin,Bruce Y Lee,2008-07-25 Clinical trials are an important part of medicine and healthcare today deciding which treatments we use to treat patients Anyone involved in healthcare today must know the basics of running and interpreting clinical trial data Written in an easy to understand style by authors who have considerable expertise and experience in both academia and industry Principles and Practice of Clinical Trial Medicine covers all of the basics of clinical trials from legal and ethical issues to statistics to patient recruitment and reporting results Jargon free writing style enables those with less experience to run their own clinical trials and interpret data Book contains an ideal mix of theory and practice so researchers will understand both the rationale and logistics to clinical trial medicine Expert authorship whose experience includes running clinical trials in an academic as well as industry settings Numerous illustrations reinforce and elucidate key concepts and add to the book s overall pedagogy

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