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CHAPTER 5

TRANSPORTATION, ASSIGNMENT, AND NETWORK MODELS

SOLUTIONS TO DISCUSSION QUESTIONS

5-1. The transportation model is an example of decision making under certainty since the costs of each shipping route, the demand at each destination, and the supply at each source are all assumed to be known with certainty.

5-2. A balanced transportation problem is one in which total demand (from all destinations) is exactly equal to total supply (from all sources). If a problem is unbalanced, either the demand or the supply constraints must be inequalities.

5-3. The enumeration method is not a practical means of solving 5×5 or 7×7 problems because of the number of possible assignments to be considered. In the 5×5 case, there are $5! = (5 \times 4 \times 3 \times 2 \times 1) = 120$ alternatives that need to be evaluated. In the 7×7 case, there are 7! = 5.040 alternatives.

5-4. The minimal-spanning model is one that will find the best way to connect all the nodes in a network together while minimizing the total distance between nodes or the total cost of connecting the nodes together. A number of decision modeling problems can be solved using this model: an example was given connecting water and power to a real estate development project. This model can also be used to determine the best way to deliver cable TV to households, connect computers on a computer network, install an oil pipeline, develop a natural gas network, and more.

5-5. The maximal-flow model can be used to determine the maximum number of cars that can flow through a road system, the number of gallons of chemicals that can flow through a chemical processing plant, the

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Eugene F. Brigham

Managerial Decision Modeling With Spreadsheets Chapter 3 Solutions:

Managerial Decision Modeling Nagraj (Raju) Balakrishnan, Barry Render, Ralph Stair, Charles Munson, 2017-08-07 This book fills a void for a balanced approach to spreadsheet based decision modeling In addition to using spreadsheets as a tool to guickly set up and solve decision models the authors show how and why the methods work and combine the user s power to logically model and analyze diverse decision making scenarios with software based solutions. The book discusses the fundamental concepts assumptions and limitations behind each decision modeling technique shows how each decision model works and illustrates the real world usefulness of each technique with many applications from both profit and nonprofit organizations. The authors provide an introduction to managerial decision modeling linear programming models modeling applications and sensitivity analysis transportation assignment and network models integer goal and nonlinear programming models project management decision theory queuing models simulation modeling forecasting models and inventory control models The additional material files Chapter 12 Excel files for each chapter Excel modules for Windows Excel modules for Mac 4th edition errata can be found at https www degruyter com view product 486941 **Managerial Decision Modeling Selected Material from Spreadsheet Modeling and Decision Analysis** ,2002 Spreadsheet Modeling and Decision Analysis Cliff T. Ragsdale, 2006 Cliff T. Ragsdale, 2000 **Introductory Management** Science Gary D. Eppen, 1998 This highly esteemed text introduces readers to the key ideas of modeling and management decision making that will be important to them throughout their careers Addressing the needs of readers interested in both business administration and decision science careers the book provides a conceptual foundation for all topics and the role of spreadsheet modeling techniques in the larger context of business decision making This text fully integrated Excel spreadsheets It is packaged with a free CD ROM which contains the student version of Crystal Ball Software Excel templates plus much much more Part of JIT program Introduction to Management Science Bernard W. Taylor, 1996 This introduction to the often mathematically rigorous techniques and applications of management science is designed to make the subject accessible for students with no mathematical background or skills It focuses on management science not only as a collection of techniques and processes but as a philosophy and method for approaching problems in a logical manner as skill that is applicable across disciplines and endeavours in all types of jobs and organizations The author's perspective is contemporary his approach hands on and his pedagogy abundant supportive and user friendly for students and instructors alike Introduction to Management Science Bernard W. Taylor (III),1999 Principles of Operations Management Jay Heizer,2008 Proceedings of the 1994 International Conference on Computer Languages ,1994 Statistics. Data Analysis, and Decision Modeling James Robert Evans, 2007 This book covers basic concepts of business statistics data analysis and management science in a spreadsheet environment Practical applications are emphasized throughout the book for business decision making a comprehensive database is developed with marketing financial and production data already

formatted on Excel worksheets This shows how real data is used and decisions are made Using Excel as the basic software and including such add ins as PHStat2 Crystal Ball and TreePlan this book covers a wide variety of topics related to business statistics statistical thinking in business displaying and summarizing data random variables sampling regression analysis forecasting statistical quality control risk analysis and Monte Carlo simulation systems simulation modeling and analysis selection models and decision analysis optimization modeling and solving and analyzing optimization models For those employed in the fields of quality control management science operations management statistical science and those who need to interpret data to make informed business decisions Small Business Solutions Brenda Kienan, 2000 It s a business guide not a technical reference but you ll get conversant enough in the technology to be able to choose the right tools and vendors to support your initiatives BOOK JACKET Applied Management Science John A. Lawrence, Barry A. Pasternack, 1998 This text aims to show students how to use the management science results in actual managerial decision making It focuses on real world applications and software rather than straight mathematics It should prepare students for the challenging situations faced by management scientists every day as they gain a familiarity with current management science approaches build skills in quantitative decision making improve their overall knowledge of business improve communication skills and develop a strong familiarity with relevant computer programs The Art of Modeling with Spreadsheets Stephen G. Powell, Kenneth R. Baker, 2004 CD ROM contains all the spreadsheets referred to in the text as well as three software tools Premium Solver Crystal Ball Sensitivity Toolkit Im Fun Financial Management Eugene F. Brigham, 2003-03

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