

Managerial Decision Modeling with Spreadsheets 3rd Edition Balakrishnan Solutions Manual

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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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Managerial Decision Modeling With Spreadsheets Solutions Manual:

Managerial Dec Modelg W/Sprdsheets and Stu Cd Nagraj Balakrishnan,Render,2002-10-01 **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 quickly 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 with Spreadsheets* Nagraj Balakrishnan,Barry Render,Ralph M. Stair,2007 **Managerial Decision Modeling with Spreadsheets, Selected Chapters** Nagraj (Raju) Balakrishnan,Barry Render,Ralph M. Stair,2019-12-04 Managerial Decision Modeling with Spreadsheets Selected Chapters **Managerial Decision Modeling with Spreadsheets** Nagraj Balakrishnan,Barry Render,Ralph M. Stair Jr,2013-08-29 For courses on decision modeling through the use of spreadsheets The perfect balance between decision modeling and spreadsheet use It s important that textbooks support decision modeling courses by combining student s ability to logically model and analyse diverse decision making scenarios with software based solution procedures Balakrishnan offers the perfect balance of the decision modeling process and the use of spreadsheets to set up and solve decision models The full text downloaded to your computer With eBooks you can search for key concepts words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf available as a free download available online and also via the iPad and Android apps Upon purchase you ll gain instant access to this eBook Time limit The eBooks products do not have an expiry date You will continue to access your digital ebook products whilst you have your Bookshelf installed **Managerial Decision Modeling with Spreadsheets** ITT,2010-05-18 [Managerial Decision Modeling](#) ,2002 **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

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