

# **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  $5 \times 5$  or  $7 \times 7$  problems because of the number of possible assignments to be considered. In the  $5 \times 5$  case, there are  $5! = (5 \times 4 \times 3 \times 2 \times 1) = 120$  alternatives that need to be evaluated. In the  $7 \times 7$  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

# Managerial Decision Modeling With Spreadsheets Solutions

**Annelies Wilder-Smith**



## **Managerial Decision Modeling With Spreadsheets Solutions:**

## Reviewing **Managerial Decision Modeling With Spreadsheets Solutions**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Managerial Decision Modeling With Spreadsheets Solutions**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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