

**Practice Problem**  
**Chapter 13—Aggregate Planning and S&OP**

**Problem 1:**

Set the following problem up in transportation format and solve for the minimum cost plan.

|                         | Period                 |     |     |
|-------------------------|------------------------|-----|-----|
|                         | Feb                    | Mar | Apr |
| Demand                  | 55                     | 70  | 75  |
|                         |                        |     |     |
| Capacity                |                        |     |     |
| Regular                 | 50                     | 50  | 50  |
| Overtime                | 5                      | 5   | 5   |
| Subcontract             | 12                     | 12  | 10  |
|                         |                        |     |     |
| Beginning Inventory     | 10                     |     |     |
|                         |                        |     |     |
| Costs                   |                        |     |     |
| Regular time            | \$60 per unit          |     |     |
| Overtime                | \$80 per unit          |     |     |
| Subcontract             | \$90 per unit          |     |     |
| Inventory carrying cost | \$1 per unit per month |     |     |
| Back order cost         | \$3 per unit per month |     |     |

**ANSWERS**

**Problem 1:**

# Practice Problem Chapter 13 Aggregate Planning

**Elwood Spencer Buffa**



## Practice Problem Chapter 13 Aggregate Planning:

*Operations Management* R. Dan Reid, Nada R. Sanders, 2024 *Operations Management An Integrated Approach* 8th edition provides a solid foundation of the subject with clear guided instructions and a balance between quantitative and qualitative concepts thus providing both an applied and practical approach In addition to leveraging customizable tactile teaching and learning methods the text covers emerging topics like artificial intelligence robotics data analytics and sustainability This international edition includes several revisions and additions to the content including updated company examples across all chapters updated discussions with regard to the latest technologies that impact operations and supply chain management and revised problems in all chapters In addition the edition includes a new Pandemic Effects box that addresses how the chapter topic has evolved or changed during the COVID 19 pandemic and how it is evolving in a post pandemic environment

EBOOK: Operations Management in the Supply Chain: Decisions and Cases SCHROEDER, 2013-02-16 EBOOK Operations Management in the Supply Chain Decisions and Cases *Factory Physics* Wallace J. Hopp, Mark L. Spearman, 2011-08-31 Our economy and future way of life depend on how well American manufacturing managers adapt to the dynamic globally competitive landscape and evolve their firms to keep pace A major challenge is how to structure the firms environment so that it attains the speed and low cost of high volume flow lines while retaining the flexibility and customization potential of a low volume job shop The books three parts are organized according to three categories of skills required by managers and engineers basics intuition and synthesis Part I reviews traditional operations management techniques and identifies the necessary components of the science of manufacturing Part II presents the core concepts of the book beginning with the structure of the science of manufacturing and a discussion of the systems approach to problem solving Other topics include behavioral tendencies of manufacturing plants push and pull production systems the human element in operations management and the relationship between quality and operations Chapter conclusions include main points and observations framed as manufacturing laws In Part III the lessons of Part I and the laws of Part II are applied to address specific manufacturing management issues in detail The authors compare and contrast common problems including shop floor control long range aggregate planning workforce planning and capacity management A main focus in Part III is to help readers visualize how general concepts in Part II can be applied to specific problems Written for both engineering and management students the authors demonstrate the effectiveness of a rule based and data driven approach to operations planning and control They advance an organized framework from which to evaluate management practices and develop useful intuition about manufacturing systems **Operations Management** Jay H. Heizer, Barry Render, 2005 Now in its seventh edition this text provides a state of the art overview of operations management It includes a new chapter on capacity planning and a behind the scenes look at the integration of operation management at Hard Rock Cafe ebook: Managing Operations Across the Supply Chain Swink, 2016-09-16 ebook Managing Operations Across the Supply Chain **Principles**

**of Operations Management** Barry Render, Jay Heizer, 1997 This text is designed as a briefer less technical introduction to operations management than the more traditional principles of operations management texts Available in two versions the hardcover version includes the Quantitative tutorials and the softcover version does not Most mathematical techniques are covered in the chapter supplements which are found in both versions      **Operations Management** Joel D.

Wisner, 2016-06-20 Finally an operations management book to get excited about Operations Management A Supply Chain Process Approach exposes students to the exciting and ever changing world of operations management through dynamic writing application and cutting edge examples that will keep students interested and instructors inspired Author Dr Joel Wisner understands that today's students will be entering a highly competitive global marketplace where two things are crucial a solid knowledge of operations management and an understanding of the importance for organizations to integrate their operations and supply chain processes With this in mind Wisner not only provides a clear and comprehensive introduction to operations management but also gives attention to the important processes involved in linking firms operations in a supply chain environment      *Farm Bankruptcy* United States. Congress. Senate. Committee on the Judiciary. Subcommittee on Administrative Practice and Procedure, 1986      *Foundations of Operations Management* Larry P.

Ritzman, Lee J. Krajewski, 2003 This text addresses a growing demand for a briefer book in operations management At 500 pages it strikes the perfect balance by covering the essential topics and provides the pedagogical structure beginning students need      Microsoft Exchange Server 2010 Best Practices Joel Stidley, Siegfried Jagott, 2010-07-15 Covers Service Pack 1 Apply best practices for administering Exchange Server 2010 and SP1 and optimize your operational efficiency and results This guide captures the field tested solutions real world lessons and candid advice of practitioners across the range of business and technical scenarios and across the IT life cycle Gain expert insights on what works where to make tradeoffs and how to implement the best decisions for your organization Discover how to Apply scenario based guidance for planning and deployment Prepare Active Directory R and the server environment Validate requirements and understand configuration tradeoffs Learn best ways to manage users mailboxes and permissions Optimize message routing and security Design and implement Unified Messaging and federated delegation Define your archiving and compliance strategy Build high availability into your backup and recovery plan Monitor and tune performance Apply proven troubleshooting tactics Companion Web content features Checklists planning worksheets and other job aids Quick Reference Guide to best practices including recommended configurations Fast reference card for using Windows PowerShell TM      **The Increase in Personal**

**Bankruptcy and the Crisis in Consumer Credit** United States. Congress. Senate. Committee on the Judiciary.

Subcommittee on Administrative Oversight and the Courts, 1997      **Production and Operations Analysis** Steven Nahmias, Tava Lennon Olsen, 2015-01-15 The Seventh Edition of Production and Operations Analysis builds a solid foundation for beginning students of production and operations management Continuing a long tradition of excellence Nahmias and

Olsen bring decades of combined experience to craft the most clear and up to date resource available The authors thorough updates include incorporation of current technology that improves the effectiveness of production processes additional qualitative sections and new material on service operations management and servicization Bolstered by copious examples and problems each chapter stands alone allowing instructors to tailor the material to their specific needs The text is essential reading for learning how to better analyze and improve on all facets of operations      **Community & Public Health**

**Nursing: Promoting the Public's Health** Judith Allender,Cherie Rector,Cherie Rector, PhD Rn-C,Kristine Warner,Kristine Warner, PhD MS MPH RN,2013-04-26 Community Public Health Nursing is designed to provide students a basic grounding in public health nursing principles while emphasizing aggregate level nursing While weaving in meaningful examples from practice throughout the text the authors coach students on how to navigate between conceptualizing about a population focus while also continuing to advocate and care for individuals families and aggregates This student friendly highly illustrated text engages students and by doing so eases students into readily applying public health principles along with evidence based practice nursing science and skills that promote health prevent disease as well as protect at risk populations What the 8th edition of this text does best is assist students in broadening the base of their knowledge and skills that they can employ in both the community and acute care settings while the newly enhanced ancillary resources offers interactive tools that allow students of all learning styles to master public health nursing      *Production Planning and Control* D.R.

Kiran,2019-06-18 Production Planning and Control draws on practitioner experiences on the shop floor covering everything a manufacturing or industrial engineer needs to know on the topic It provides basic knowledge on production functions that are essential for the effective use of PP C techniques and tools It is written in an approachable style thus making it ideal for readers with limited knowledge of production planning Comprehensive coverage includes quality management lean management factory planning and how they relate to PP C End of chapter questions help readers ensure they have grasped the most important concepts With its focus on actionable knowledge and broad coverage of essential reference material this is the ideal PP C resource to accompany work research or study Uses practical examples from the industry to clearly illustrate the concepts presented Provides a basic overview of statistics to accompany the introduction to forecasting Covers the relevance of PP C to key emerging themes in manufacturing technology including the Industrial Internet of Things and Industry 4      **Disaggregation in Econometric Modelling (Routledge Revivals)** Terry Barker,2014-02-04 In this book first published in 1990 leading theorists and applied economists address themselves to the key questions of aggregation The issues are covered both theoretically and in wide ranging applications Of particular intrest is the optimal aggregation of trade data the need for micro modelling when imoportant non linearities are present for example tax exhaustion in modelling company behaviour and the use of a micro model to stimulate labour supply behaviour in a macro model of the Netherlands

*Operations Management: Problems and Models* Elwood Spencer Buffa,1972      Bankruptcy Reform Act of 1999 United

States. Congress. House. Committee on the Judiciary. Subcommittee on Commercial and Administrative Law, 2000

*Principles of Operations Management* Jay Heizer, 2008      *PRODUCTION AND OPERATIONS MANAGEMENT, SECOND EDITION* KHANNA R.B., 2015-06-01 This well balanced text with its fine blend of theory and applications gives an in depth understanding of production and operations management in an easy to understand style Employing an innovative approach the author shows how the use of modern advanced technology gives a boost to production processes and significantly helps production and operations management The book clearly demonstrates the use of special software packages to solve actual problems Retaining the original contents the book divided into six parts explains following in its second edition WHY Necessity of production and operations management WHAT Product service design product quality and other issues HOW Process design and related issues WHERE Plant location layout and capacity WHEN Planning and control of production operations WHO Human relations issues that affect production and operations Key features Learning objectives at the beginning of each chapter enable readers to focus on important points of a chapter A concept quiz at the end of each chapter helps the reader to evaluate his understanding of the concepts explained in a chapter Numerous solved examples and answers to all chapter end numerical problems have been provided Covers Service Operations in almost every chapter in addition to the traditional manufacturing operations A section with 10 progressive short case studies gives real world experience Chapter end summary helps readers to review and recapitulate the key concepts The students of management and engineering mechanical production and industrial engineering will be benefited with the book An instructor manual containing PowerPoint slides and solutions to chapter end problems is available The book is recommended by AICTE for PGDM course The link is [www.aicte-india.org/modelsyllabus.php](http://www.aicte-india.org/modelsyllabus.php)      **Modern Production Management** Elwood Spencer Buffa, 1977

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