

8. Aggregate Planning Problem

A company wants a high-level, aggregate production plan for the next 6 months. Projected orders for the company's products are listed in Table 3. Over the 6-month period, units may be produced in one month and stored in inventory to meet demand at some later time. Because of seasonal factors, the cost of production is not constant, as shown in the table.

Table 3: Aggregate Planing Data

Month	Demand (units)	Production cost (\$/unit)
1	1300	100
2	1400	105
3	1000	110
4	800	115
5	1700	110
6	1900	110

The cost of holding an item in inventory is \$4 per unit per month. Items produced and sold in the same month are not placed in the inventory. The maximum number of units that can be stored is 250. The initial inventory level at the beginning of the planning horizon is 200 units; the final inventory level at the end of the planning horizon is to be 100 units. Construct a mathematical program that determines the optimal amount to produce in each month so that demand is met while minimizing total production cost and inventory holding cost. Shortages are not permitted.

Aggregate Planning Problems And Solutions

Gaotjer, Frazier



Aggregate Planning Problems And Solutions:

Managing Operations in Manufacturing, Services and e-Business - 2nd Edition Barin N. Nag,2019

Operations and Production Systems with Multiple Objectives Behnam Malakooti,2014-02-03 The first comprehensive book to uniquely combine the three fields of systems engineering operations production systems and multiple criteria decision making optimization Systems engineering is the art and science of designing engineering and building complex systems combining art science management and engineering disciplines Operations and Production Systems with Multiple Objectives covers all classical topics of operations and production systems as well as new topics not seen in any similar textbooks before small scale design of cellular systems large scale design of complex systems clustering productivity and efficiency measurements and energy systems Filled with completely new perspectives paradigms and robust methods of solving classic and modern problems the book includes numerous examples and sample spreadsheets for solving each problem a solutions manual and a book companion site complete with worked examples and supplemental articles Operations and Production Systems with Multiple Objectives will teach readers How operations and production systems are designed and planned How operations and production systems are engineered and optimized How to formulate and solve manufacturing systems problems How to model and solve interdisciplinary and systems engineering problems How to solve decision problems with multiple and conflicting objectives This book is ideal for senior undergraduate MS and PhD graduate students in all fields of engineering business and management as well as practitioners and researchers in systems engineering operations production and manufacturing

Supply Chain Engineering and Logistics Handbook Erick C. Jones,2019-11-12 This handbook begins with the history of Supply Chain SC Engineering it goes on to explain how the SC is connected today and rounds out with future trends The overall merit of the book is that it introduces a framework similar to sundial that allows an organization to determine where their company may fall on the SC Technology Scale The book will describe those who are using more historic technologies companies that are using current collaboration tools for connecting their SC to other global SCs and the SCs that are moving more towards cutting edge technologies This book will be a handbook for practitioners a teaching resource for academics and a guide for military contractors Some figures in the eBook will be in color Presents a decision model for choosing the best Supply Chain Engineering SCE strategies for Service and Manufacturing Operations with respect to Industrial Engineering and Operations Research techniques Offers an economic comparison model for evaluating SCE strategies for manufacturing outsourcing as opposed to keeping operations in house Demonstrates how to integrate automation techniques such as RFID into planning and distribution operations Provides case studies of SC inventory reductions using automation from AIT and RFID research Covers planning and scheduling as well as transportation and SC theory and problems

The Routledge Companion to Production and Operations Management Martin K. Starr,Sushil K. Gupta,2017-03-27 This remarkable volume highlights the importance of Production and Operations

Management POM as a field of study and research contributing to substantial business and social growth The editors emphasize how POM works with a range of systems agriculture disaster management e commerce healthcare hospitality military systems not for profit retail sports sustainability telecommunications and transport and how it contributes to the growth of each Martin K Starr and Sushil K Gupta gather an international team of experts to provide researchers and students with a panoramic vision of the field Divided into eight parts the book presents the history of POM and establishes the foundation upon which POM has been built while also revisiting and revitalizing topics that have long been essential It examines the significance of processes and projects to the fundamental growth of the POM field Critical emerging themes and new research are examined with open minds and this is followed by opportunities to interface with other business functions Finally the next era is discussed in ways that combine practical skill with philosophy in its analysis of POM including traditional and nontraditional applications before concluding with the editors thoughts on the future of the discipline Students of POM will find this a comprehensive definitive resource on the state of the discipline and its future directions

EBOOK: Operations Management: Theory and Practice: Global Edition STEVENSON, WILL,2019-01-11 **EBOOK** Operations Management Theory and Practice Global Edition **Instructors Solutions Manual** Mark Hanna,2001-05-17

A Manager Interactive Model for Aggregate Planning Donald Fred Rossin,1985 *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

Multiobjective Problems of Mathematical Programming Andrzej Lewandowski,1991 This book presents recent developments in methodology theory software and implementation of Decision Support Systems It deals with the theory and algorithms for multiple criteria optimization and discusses topics like multiple criteria optimization in hierarchical systems relations between simulation and gaming for conflict resolution and sensitivity and trade off analysis in multiobjective programming In addition it treats applications and computer implementations of Decision Support Systems This includes experience in applying Decision Support Systems for industry management bank management and water system management

Production and Operation Management Solutions Manual Gaotjer,Frazier,1998-09 **Operations Management: Problems and Models** Elwood Spencer Buffa,1968 **Essentials of Production and Operations Management** Ehud Menipaz,1984 *Proceedings of the ... Annual Meeting of the Decision Sciences Institute* Decision Sciences Institute. Annual Meeting,1987 **Proceedings**

American Institute for Decision Sciences. Meeting,1982 *Instructors Resource Manual* L. W. Shell,Roberta Russell,2002-09 *Planning Problems of Town, City, and Region* ,1913 **Production** Daniel Sipper,Robert L. Bulfin,1997

Oriented towards advanced Industrial Engineering students this book covers the evolution of production systems forecasting problem solving aggregate planning inventory materials requirements planning scheduling and project management *The Lot Scheduling Problem in the Hierarchy of Decision Models* Robert Sheldon,1986 The economic lot scheduling problem

ELSP surfaces from competition among products for a scarce resource usually machine time When scheduling production of batches in this environment two issues must be resolved the size of batches and the start times for production of each batch

Standard approaches to the ELSP focus on scheduling multiple products on a single machine This thesis addresses three important issues that put the scheduling problem in the context of its physical setting and range of parameters idle time the zero switch rule and stochastic input to a bottleneck machine In most scheduling heuristics the reason for idle time is to balance cyclic production patterns Idle time is also optimal in solutions to problems with high setup costs We show that the condition for inducing idle time given zero setup costs is when one product has dominant holding costs and the remaining products have low machine utilization A common policy in scheduling is to start production only after the inventory reaches zero This policy is called the zero switch rule ZSR and is regarded as a good scheduling policy We show that the condition when ZSR is not optimal is when the ZSR solution yields lumpy production patterns for a product with dominant holding costs

Production and Operations Management James B. Dilworth,1986 Efficient Employment Planning in a Public Utility LeRoy Jerome Krajewski,1969

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