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HANDBOOK OF QUANTITATIVE SUPPLY CHAIN ANALYSIS

Modeling in the E-Business Era

edited by
David Simchi-Levi
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Handbook Of Quantitative Supply Chain Analysis
Modeling In The E Business Era International Series In
Operations Research Management Science

H. Paul Williams



Handbook Of Quantitative Supply Chain Analysis Modeling In The E Business Era International Series In Operations Research Management Science:

Handbook of Quantitative Supply Chain Analysis David Simchi-Levi, S. David Wu, Zuo-Jun (Max) Shen, 2004-05-31 The Handbook is a comprehensive research reference that is essential for anyone interested in conducting research in supply chain. Unique features include A focus on the intersection of quantitative supply chain analysis and E Business Unlike other edited volumes in the supply chain area this is a handbook rather than a collection of research papers Each chapter was written by one or more leading researchers in the area These authors were invited on the basis of their scholarly expertise and unique insights in a particular sub area As much attention is given to looking back as to looking forward Most chapters discuss at length future research needs and research directions from both theoretical and practical perspectives Most chapters describe in detail the quantitative models used for analysis and the theoretical underpinnings many examples and case studies are provided to demonstrate how the models and the theoretical insights are relevant to real situations Coverage of most state of the art business practices in supply chain management

Handbook of Quantitative Supply Chain Analysis David Simchi-Levi, S. David Wu, Zuo-Jun Max Shen, 2004-05-31 About quantitative supply chain analysis in the electronic business environment

Logic and Integer Programming H. Paul Williams, 2009-04-09 Paul Williams a leading authority on modeling in integer programming has written a concise readable introduction to the science and art of using modeling in logic for integer programming Written for graduate and postgraduate students as well as academics and practitioners the book is divided into four chapters that all avoid the typical format of definitions theorems and proofs and instead introduce concepts and results within the text through examples References are given at the end of each chapter to the more mathematical papers and texts on the subject and exercises are included to reinforce and expand on the material in the chapter Methods of solving with both logic and IP are given and their connections are described Applications in diverse fields are discussed and Williams shows how IP models can be expressed as satisfiability problems and solved as such

Risk-Averse Capacity Control in Revenue Management Christiane Barz, 2007-08-16 If necessity is the mother of invention then deregulation is the father and revenue management also known as yield management is the couple's golden child at least as far as operations research is concerned Horner 2000 p 47 Deregulation had a significant impact on the U S airline industry in the late 1970s Charter and low cost airlines such as People Express and Southwest were able to offer seats at a fraction of the price charged by established carriers like Pan Am and American Airlines Due to their different cost structure it seemed to be impossible for the big carriers to offer tickets at the same low price Yet they had to find a way to compete Robert L Crandall from American Airlines is widely credited with the solution to the problem yield management today called revenue management since it maximizes revenue earned on a flight rather than yield revenue per passenger mile The idea was simple American Airlines flights were only half full on average Offering the empty seats at a discount price would not

only enable the carriers to compete with the low cost airlines but even create additional revenue if it were possible to prevent cannibalization i.e. the sale of discount tickets to consumers who would otherwise be willing to pay full fare and if it could be assured that only the seats that would otherwise be empty were sold at the low price

Handbook of Research on Distribution Channels Charles A. Ingene, James R. Brown, the late Rajiv P. Dant, 2019 Distribution channels are the most complex element of the marketing mix to fully grasp and to profitably manage In this Handbook the authors present cutting edge research on channel management and design from analytical conceptual and empirical perspectives The breadth of this Handbook makes it appropriate for use in a doctoral course on distribution channels or as a knowledge broadening resource for faculty and researchers who wish to understand types of channels research that are outside the scope of their own approach to distribution

Intelligent Production Machines and Systems - 2nd I*PROMS Virtual International Conference 3-14 July 2006 Duc T. Pham, Eldaw E. Eldukhri, Anthony J. Soroka, 2011-07-28 I PROMS 2005 is an online web based conference It provides a platform for presenting discussing and disseminating research results contributed by scientists and industrial practitioners active in the area of intelligent systems and soft computing techniques such as fuzzy logic neural networks evolutionary algorithms and knowledge based systems and their application in different areas of manufacturing Comprised of 100 peer reviewed articles this important resource provides tools to help enterprises achieve goals critical to the future of manufacturing I PROMS is an European Union funded network that involves 30 partner organizations and more than 130 researchers from universities research organizations and corporations State of the art research results Leading European researchers and industrial practitioners Comprehensive collection of indexed and peer reviewed articles in book format supported by a user friendly full text CD ROM with search functionality

Service Enterprise Integration Cheng Hsu, 2007-04-06 This book provides a systematic examination of the developing business model service enterprise integration It investigates the proven concepts models methods and techniques in manufacturing operations and examines all aspects relevant to service productivity Chapters written by leading researchers provide critical literature reviews conceptual analysis and solution result oriented applications

Supply Chain Management and Advanced Planning Hartmut Stadler, Christoph Kilger, Herbert Meyr, 2014-11-14 Supply Chain Management Enterprise Resources Planning ERP and Advanced Planning Systems APS are important concepts in order to organize and optimize the flow of materials information and financial funds This book already in its fifth edition gives a broad and up to date overview of the concepts underlying APS Special emphasis is given to modeling supply chains and implementing APS successfully in industry Understanding is enhanced by several case studies covering APS from various software vendors The fifth edition contains updated material rewritten chapters and an additional case study

Handbook of Operations Research in Natural Resources Andres Weintraub, Carlos Romero, Trond Bjørndal, Rafael Epstein, 2007-09-19 Handbook of Operations Research in Natural Resources will be the first systematic handbook treatment of quantitative modeling natural resource problems their allocated efficient

use and societal and economic impact Andr s Weintraub is the very top person in Natural Resource research Moreover he has an international reputation in OR and a former president of the International Federation of Operational Research Societies IFORS He has selected co editors who are at the top of the sub fields in natural resources agriculture fisheries forestry and mining The book will cover these areas in terms with contributions from researchers on modeling natural research problems quantifying data developing algorithms and discussing the benefits of research implementations The handbook will include tutorial contributions when necessary Throughout the book technological advances and algorithmic developments that have been driven by natural resource problems will be called out and discussed **Nonlinear Integer**

Programming Duan Li,Xiaoling Sun,2006-08-13 It is not an exaggeration that much of what people devote in their hfe re solves around optimization in one way or another On one hand many decision making problems in real applications naturally result in optimization problems in a form of integer programming On the other hand integer programming has been one of the great challenges for the optimization research community for many years due to its computational difficulties Exponential growth in its computational complexity with respect to the problem dimension Since the pioneering work of R Gomory 80 in the late 1950s the theoretical and methodological development of integer programming has grown by leaps and bounds mainly focusing on linear integer programming The past few years have also witnessed certain promising theoretical and methodological achieve ments in nonlinear integer programming When the first author of this book was working on duality theory for n convex continuous optimization in the middle of 1990s Prof Douglas J White suggested that he explore an extension of his research results to integer pro gramming The two authors of the book started their collaborative work on integer programming and global optimization in 1997 The more they have investigated in nonlinear integer programming the more they need to further delve into the subject Both authors have been greatly enjoying working in this exciting and challenging field Perspectives in Modern Project Scheduling Joanna Jozefowska,Jan Weglarz,2006-12-11 Operations

Research began with the mathematical scheduling of a massive project logistically supplying Europe with military equipment and goods during the WWII Today project scheduling research continues growing in a variety of its theoretical models in its magnitude and application As the world becomes more interrelated and complex the wider its research is applied to an increasing number of project scheduling problems Project Scheduling Surveying the State of the Art surveys the current state of the art in operations research with chapters written by the respective leading experts on each topic It covers the range of the key models in the field including deterministic probabilistic single and multi mode single and multi objective and a general model on discrete continuous resources Recent solution algorithms are systematical examined The book summarize sthe current developments and theoretical achievements in the field including project uncertainty and grid resource management *Game Theoretic Problems in Network Economics and Mechanism Design Solutions* Y. Narahari,Dinesh

Garg,Ramasuri Narayanam,Hastagiri Prakash,2009-04-03 This monograph focuses on exploring game theoretic modeling and

mechanism design for problem solving in Internet and network economics For the first time the main theoretical issues and applications of mechanism design are bound together in a single text

Evaluation and Decision Models with Multiple Criteria Denis Bouyssou,Thierry Marchant,Marc Pirlot,Alexis Tsoukias,Philippe Vincke,2006-06-07 Formal decision and evaluation models are sets of explicit and well defined rules to collect assess and process information in order to be able to make recommendations in decision and or evaluation processes They are so widespread that almost no one can pretend not to have used or suffered the consequences of one of them Our earlier companion volume Evaluation and Decision Models heavily criticised formal models but also argued that they could be useful On the other hand Evaluation and Decision Models with Multiple Criteria is a guide aimed at helping the analyst to choose a model and use it consistently We propose a sound analysis of techniques and our presentation can be extended to most decision and evaluation models as a decision aiding methodology This volume is intended for the enlightened practitioner for anyone who uses decision or evaluation models for research or for applications and is willing to question his practice to have a deeper understanding of what he does

Linear Programming Robert J Vanderbei,2007-10-23 This Third Edition introduces the latest theory and applications in optimization It emphasizes constrained optimization beginning with linear programming and then proceeding to convex analysis network flows integer programming quadratic programming and convex optimization You ll discover a host of practical business applications as well as non business applications With its focus on solving practical problems the book features free C programs to implement the major algorithms covered The book s accompanying website includes the C programs JAVA tools and new online instructional tools and exercises

Uncertainty in the Electric Power Industry Christoph Weber,2006-01-06 Around the world liberalization and privatization in the electricity industry have lead to increased competition among utilities At the same time utilities are now exposed more than ever to risk and uncertainties which they cannot pass on to their customers through price increases as in a regulated environment Especially electricity generating companies have to face volatile wholesale prices fuel price uncertainty limited long term hedging possibilities and huge to a large extent sunk investments In this context Uncertainty in the Electric Power Industry Methods and Models for Decision Support aims at an integrative view on the decision problems that power companies have to tackle It systematically examines the uncertainties power companies are facing and develops models to describe them including an innovative approach combining fundamental and finance models for price modeling The optimization of generation and trading portfolios under uncertainty is discussed with particular focus on CHP and is linked to risk management Here the concept of integral earnings at risk is developed to provide a theoretically sound combination of value at risk and profit at risk approaches adapted to real market structures and market liquidity Also methods for supporting long term investment decisions are presented technology assessment based on experience curves and operation simulation for fuel cells and a real options approach with endogenous electricity prices

Vacation Queueing Models Naishuo Tian,Zhe George

Zhang,2006-10-11 This book discusses systematically the many variations of vacation policy The book discusses a variety of typical vacation model applications The presentation style is unique compared with the books published in the same field a theorem and proof format is used Also this is the first time G1 M 1 multi server vacation models both continuous and discrete and the optimization and control issues have been presented in book form Building Intuition Dilip Chhajed,Timothy J.

Lowe,2008-07-11 One of the primary purposes of any model is to build intuition and generate insights Typically a model is developed to be able to better understand phenomena that are otherwise difficult to comprehend Models can also help in verifying the correctness of an intuition or judgment In spite of the fact that many educators and practitioners recognize the intuition building power of simple models this is the first book in the field that uses the power of the basic models and principles to provide students and managers with an intuitive understanding of operations management Building Intuition Insights From Basic Operations Management Models and Principles touches on nine fundamental models and principles and outlines the key insights behind each one To ensure that the volume is accurate authoritative accessible and well written the chapters are developed by leading experts in each chapter area and written with the students and managers in mind The book s primary purpose is to motivate and to enable readers to develop insights with respect to a number of models that are central to the study and practice of operations management **An Annotated Timeline of Operations Research** Saul I.

Gass,Arjang A. Assad,2007-02-15 An Annotated Timeline of Operations Research An Informal History recounts the evolution of Operations Research OR as a new science the science of decision making Arising from the urgent operational issues of World War II the philosophy and methodology of OR has permeated the resolution of decision problems in business industry and government The Timeline chronicles the history of OR in the form of self contained expository entries Each entry presents a concise explanation of the events and people under discussion and provides key sources where further relevant information can be obtained In addition books and papers that have influenced the development of OR or helped to educate the first generations of OR academics and practitioners are cited throughout the book Starting in 1564 with seminal ideas that form the precursors of OR the Timeline traces the key ideas and events of OR through 2004 The Timeline should interest anyone involved in OR researchers practitioners academics and especially students who wish to learn how OR came into being Further the scope and expository style of the Timeline should make it of value to the general reader interested in the development of science and technology in the last half of the twentieth century Supply Chain Games: Operations

Management and Risk Valuation Konstantin Kogan,Charles S. Tapiero,2007-09-05 In today s global economy supply chains are an essential ingredient to corporate survival and growth Operations strategy in supply chains must assume an ever expanding and strategic role of risks that modern enterprises face when they operate in an interdependent supply chain environment These operational and strategic facets entail a brand new set of operational problems and risks that have not always been understood or managed very well It falls to supply chain managers to identify and to educate corporate

managers on what these critical operational problems and risks involve Supply Chain Games Operations Management and Risk Valuation provides business students and practitioners with the means to understand to model and to analyze these outstanding issues and problems that are the essential elements in managing supply chains today **Consumer-Driven Demand and Operations Management Models** Serguei Netessine, Christopher S. Tang, 2009-06-02 This important book is by top scholars in supply chain management revenue management and e commerce all of which are grounded in information technologies and consumer demand research The book looks at new selling techniques designed to reach the consumer

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