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Delineating the proper design, layout, and location of facilities, this book strikes a healthy balance between theory and practice. It provides an understanding of the practical aspects of implementing preliminary designs development through analytical models. The third edition of a bestseller, it features updated multimedia tools, new software, an

Now in Its Fourth Edition: Your Guide to Successful Facility Design Overcome design and planning problems using the fourth edition of Facilities Design. Dedicated to the proper design, layout, and location of facilities, this definitive guide outlines the main design and operational problems that occur in manufacturing and service systems, explains the significance of facility design and planning problems, and describes how mathematical models can be used to help analyze and solve them. Combining theory with practice, this revised work presents state-of-the-art topics in materials handling, warehousing, and logistics along with real-world examples that emphasize the importance of modeling and analysis when determining a solution to complex facility design problems. What s New in the Fourth Edition: The latest version introduces new material that includes handling equipment and systems, and presents relevant case studies in each and every chapter. It also provides access to LayoutiQ software, data files for many of the numerical examples that are contained throughout the book, and PowerPoint files for various chapters. Additionally, the author: Describes tools  $\frac{Page}{7/13}$ 

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This book provides an overview of important trends and developments in logistics and supply chain research, making them available to practitioners, while also serving as a point of reference for academicians. Operations and logistics are cornerstones of modern supply chains that in turn are essential for global business and economics. The composition, character and importance of supply chains and networks are rapidly changing, due to technological innovations such as Information and Communication Technologies, Sensors and Robotics, Internet of Things, and Additive Manufacturing, to name a few (often referred to as Industry 4.0). Societal developments such as environmental consciousness, urbanization or the optimal use of scarce resources are also impacting how supply chain networks are configured and operated. As a result, future supply chains will not just be assessed in terms of cost-effectiveness and speed, but also the need to satisfy agility, resilience and  $_{\textit{Page 8/13}}^{\textit{total}}$ 

sustainability requirements. To face these challenges, an understanding of the basic as well as more advanced concepts and recent innovations is essential in building competitive and sustainable supply chains and, as part of that, logistics and operations. These span multiple disciplines and geographies, making them interdisciplinary and international. Therefore, this book contains contributions and views from a variety of experts from multiple countries, and combines management, engineering as well as basic information technology and social concepts. In particular, it aims to: provide a comprehensive guide for all relevant and major logistics, operations, and supply chain management topics in teaching and business practice address three levels of expertise, i.e., concepts and principles at a basic (undergraduate, BS) level, more advanced topics at a graduate level (MS), and finally recent (state-of-the-art) developments at a research level. In particular the latter serve to present a window on current and future (potential) logistics innovations in the different thematic fields for both researchers and top business practitioners integrate a textbook approach with matching case studies for effective teaching and learning discuss multiple international perspectives in order to represent adequately the true global nature of operations, logistics and supply chains.

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, ecommerce, healthcare, hospitality, military systems, not-forprofit, 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.

Uniquely blends mathematical theory and algorithm design forunderstanding and modeling real-world problems Optimization modeling and algorithms are key components toproblem-solving across various fields of research, from operationsresearch and mathematics to computer science and engineering. Addressing the importance of the algorithm design process. Deterministic Operations Research focuses on the design of solution methods for both continuous and discrete linearoptimization problems. The result is a clear-cut resource forunderstanding three cornerstones of deterministic operationsresearch: modeling real-world problems as linear optimization problem; designing the necessary algorithms to solve theseproblems; and using mathematical theory to justify algorithmicdevelopment. Treating real-world examples as mathematical problems, theauthor begins with an introduction to operations research andoptimization modeling that includes applications form sports scheduling an the airline  $\frac{Page}{10/13}$ 

industry. Subsequent chapters discussalgorithm design for continuous linear optimization problems, covering topics such as convexity. Farkas Lemma, and the study of polyhedral before culminating in a discussion of the Simplex Method. The book also addresses linear programming dualitytheory and its use in algorithm design as well as the Dual SimplexMethod. Dantzig-Wolfe decomposition, and a primal-dual interiorpoint algorithm. The final chapters present network optimization and integer programming problems, highlighting various specializedtopics including label-correcting algorithms for the shortest pathproblem, preprocessing and probing in integer programming, lifting of valid inequalities, and branch and cut algorithms. Concepts and approaches are introduced by outlining examplesthat demonstrate and motivate theoretical concepts. The accessible presentation of advanced ideas makes core aspects easy tounderstand and encourages readers to understand how to think about the problem, not just what to think. Relevant historical summariescan be found throughout the book, and each chapter is designed asthe continuation of the <code>IstoryI</code> of how to both modeland solve optimization problems by using the specificproblems-linear and integer programs-as guides. The book svarious examples are accompanied by the appropriate models and calculations, and a related Web site features these models alongwith Maple and MATLAB® content for the discussed calculations. Thoroughly class-tested to ensure a straightforward, hands-onapproach, Deterministic Operations Research is an excellentbook for operations research of linear optimization courses at theupper-undergraduate and graduate levels. It also serves as aninsightful reference for individuals working in the fields ofmathematics, engineering. computer science, and operations researchwho use and design algorithms to solve problem in their everydaywork.

Quantitative Methods in Transportation provides the most useful, simple, and advanced quantitative techniques for solving real-life transportation engineering problems. It aims to help transportation engineers and analysts to predict travel and freight demand, plan new transportation networks, and develop various traffic control strategies that are safer, more cost effective, and greener. Transportation networks can be exceptionally large, and this makes many transportation problems combinatorial, and the challenges are compounded by the stochastic and independent nature of trip-planners decision making. Methods outlined in this book range from linear programming, multi-attribute decision making, data envelopment analysis, probability theory, and simulation to computer techniques such as genetic algorithms, simulated annealing, tabu search, ant colony optimization, and bee colony optimization. The book is supported with problems and has a solutions manual to aid course instructors.

Modeling and Analysis of Local Area Networks fills a void in the array of books on Local Area Networks (LANs) in that it reviews the state of LAN technology from a hardware and software perspective, develops a set of metrics that can be used to evaluate LANs for end applications, and investigates methodologies for evaluating LANs from these perspectives. The book discusses LAN evaluation techniques utilizing analysis, operational analysis, hardware testbeds, and simulations. Simulations will be stressed in greater detail and a tool available for evaluating LANs performance (called MALAN) is presented and the details of its structure developed.

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