DESCRIPTION

This text presents the basic system concepts while providing more detail and rigor than the conceptual descriptions found in many operation management texts. Mathematical decision models and tools for improving systems are described. In discussing production systems, the authors go beyond addressing the basic what questions, and provide guidance on how, when and why as well. While emphasizing planning models, the text delves into more hands-on engineering topics such as methods for setup time reduction, and fool proofing of production operations. The presentation follows the standard production system decision hierarchy. Modern philosophies such as time-based competition, lean manufacturing, and supply chain management are integrated into the discussion.

This text presents a modern view of production system design and analysis at a level appropriate for upper division undergraduates and beginning graduate students in industrial engineering or quantitative business schools.

ABOUT THE AUTHOR

FEATURES

• Enables students to better understand the concepts. Askin and Goldberg use a strong teaching methodology that encourages students to assess the problem, develop mathematical models, develop solution algorithms and then offer an example of the solution.

• Self-contained chapter material offers great flexibility. Text allows you to present a complete picture of modern production systems analysis and design and then let you chose what material to cover.

• Case studies offer students the opportunity to encounter on the job problems. Case studies in the text offer students opportunities to work on problems, as a team, that they are likely to encounter on the job.

• Convenient coverage of Multi-Echelon inventory. Unlike other texts, Askin and Goldberg, have organized papers chronologically and by topic thereby offering students clear and concise coverage of this highly advanced material.

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