Stefan Voß, David L. Woodruff

Introduction to Computational Optimization Models for Production Planning in a Supply Chain

- **Provides an easy-to-follow introduction to the use of optimization techniques in production planning**
- **Introduces sophisticated models for supply chain management**
- **Includes a chapter presenting implementation of examples in popular modeling languages**
- **This new edition is updated, and provides extensions**

provide models that could be used by do-it-yourselfers and also can be used to provide understanding of the background issues so that one can do a better job of working with the (proprietary) algorithms of the software vendors. In this book we strive to provide models that capture many of the - tails faced by ?rms operating in a modern supply chain, but we stop short of proposing models for economic analysis of the entire multi-player chain. In other words, we produce models that are useful for planning within a supply chain rather than models for planning the supply chain. The usefulness of the models is enhanced greatly by the fact that they have been implemented - ing computer modeling languages. Implementations are shown in Chapter 7, which allows solutions to be found using a computer. A reasonable question is: why write the book now? It is a combination of opportunities that have recently become available. The availability of mod- ing languages and computers that provides the opportunity to make practical use of the models that we develop. Meanwhile, software companies are p- viding software for optimized production planning in a supply chain.

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