



An Integrated Approach in Production Planning and Scheduling

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Book Condition: New. Publisher/Verlag: Springer, Berlin | This book presents an integrated model for production planning and scheduling as well as a lot-streaming procedure for job-shop scheduling. Of particular interest is the consistency of the decisions taken at the planning and scheduling levels as well as the simple iterative method of resolution. The lot-streaming procedure is also simple and yields dramatic savings. Numerous numerical experiments are presented as well as illustrative figures and tables. The main benefit for the reader is a first attempt to derive an integrated and consistent model for planning and scheduling. The lot-streaming procedure is also new. | Production Management is a large field concerned with all the aspects related to production, from the very bottom decisions at the machine level, to the top-level strategic decisions. In this book, we are concerned with production planning and scheduling aspects. Traditional production planning methodologies are based on a now widely accepted hierarchical decomposition into several planning decision levels. The higher in the hierarchy, the more aggregate are the models and the more important are the decisions. In this book, we only consider the last two decision levels in the hierarchy, namely, the mid-term (or tactical) planning level...



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