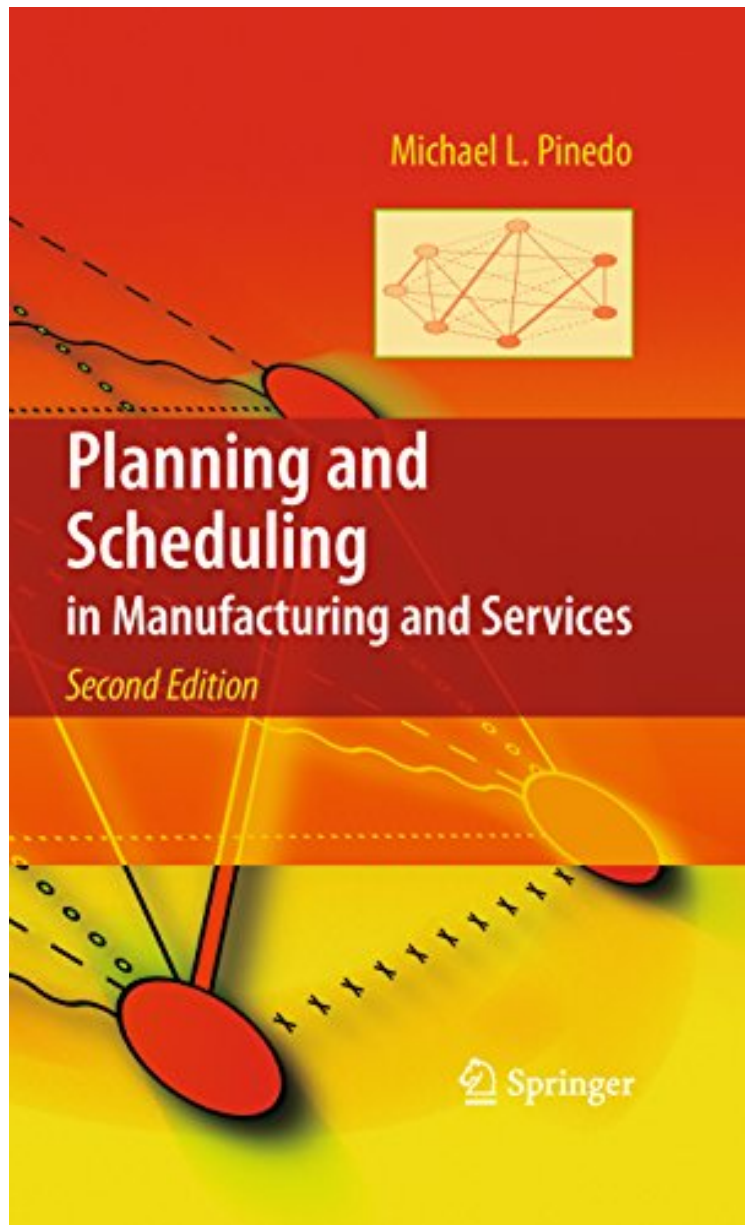


(Free) Planning and Scheduling in Manufacturing and Services

Planning and Scheduling in Manufacturing and Services

Michael L. Pinedo

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Pinedo is a major figure in the scheduling area (well versed in both stochastics and combinatorics) , and knows both the academic and practitioner side of the discipline. This book includes the integration of case studies into the text.It will appeal to engineering and business students interested in operations research.

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I would buy the book to use it as course material hellip; ." (Alf Kimms, OR News, Issue 25, 2005)"This book focuses on planning and scheduling applications in manufacturing and services, selecting the most important and representative models and methodologies from the enormous available literature in this field. hellip; this book from Pinedo is a very well balanced and organised selection of contents in the planning and scheduling area. hellip; The book may be very useful as an application guide for practitioners hellip; . It seems that the book may be intended for a senior level or master level course in engineering or business schools." (Marco Garetti, Production Planning Control, Vol. 17 (10), 2006)"Pinedo's book is an effective combination of planning and scheduling theory with practical applications which help the reader to immediately link mathematical models to real-world problems and computer-based decision support systems. hellip; Overall, Planning and Scheduling in Manufacturing and Services is a valuable resource for students, academics and practitioners interested in planning and scheduling. hellip; This book is a very effective combination of theory and practice presented in a simple and clear style making it very enjoyable reading." (D Silva, Journal of the Operational research Society, Vol. 59 (5), 2008)From the reviews of the second edition:"It covers scheduling problems in various areas of manufacturing and services such as for instance, project scheduling hellip; rostering or scheduling problems in sports and health care. hellip; Exercises to the 15 chapters present a good fundament for using the book as a teaching material. hellip; recommend it to any reader who wants do deepen his or her understanding of scheduling problems with a focus on practical applications. hellip; used for self-study or by practitioners. hellip; experts in scheduling can also benefit from this book." (T. Hanne, Journal of the Operational Research Society, Vol. 61, 2010)"The second edition of this book is a slight extension of the first edition from 2005. The major change in the new edition results from the inclusion of a new chapter on health care. hellip; there have been added three new sets of slides from academia and another movie from United Airlines. Summarizing, the broad spectrum covered by the book makes it very attractive for all people working in the scheduling area and can be highly recommended by the reviewer." (Frank Werner, Zentralblatt MATH, Vol. 1175, 2010)From the Back CoverThis second edition book focuses on planning and scheduling applications with a new chapter on planning and scheduling in health care. Planning and scheduling are forms of decision-making that play an important role in most manufacturing and services industries. The planning and scheduling functions in a company typically use analytical techniques and heuristic methods to allocate its limited resources to the activities that have to be done.The application areas considered in this book are divided into manufacturing applications and services applications. The book covers four areas in planning and scheduling: preliminary scheduling, planning and scheduling in manufacturing, planning and scheduling in services and systems development and implementation.It covers four areas in services: reservations and timetabling, tournament scheduling, planning and scheduling in transportation, planning and scheduling in healthcare and workforce scheduling. At the end of each chapter, a case study or a system implementation is described in detail. Numerous examples and exercises throughout the book illustrate the material presented. The fundamentals concerning the methodologies used in the application chapters are covered in the appendices.This book is suitable for more advanced students in industrial engineering and operations research as well as graduate students in business.Michael Pinedo is the Julius Schlesinger Professor of Operations Management in the Stern School of Business at New York University. His research interests lie in the theoretical and applied aspects of planning and scheduling. He has written numerous papers on the theory of deterministic and stochastic scheduling and has also consulted extensively in industry. He has been actively involved in the development of several large industrial planning and scheduling systems."The book may be very useful as an application guideline for practitioners from the manufacturing and services sectors, while it has a special value for academic people."--Marco Garetti, Production Planning and Control.