

Oded Malmon, Eugene Khramchikov  
and Konstantin Kogan

# OPTIMAL FLOW CONTROL IN MANUFACTURING SYSTEMS

Production Planning and  
Scheduling

Springer Science+Business Media, LLC

# Optimal Flow Control In Manufacturing Systems

**O. Maimon, Eugene Khmelnitsky, K.  
Kogan**



### **Optimal Flow Control In Manufacturing Systems:**

*Optimal Flow Control in Manufacturing Systems* O. Maimon, Eugene Khmelnitsky, K. Kogan, 1998-08-31 This book presents a unified optimal control approach to a large class of problems arising in the field of production planning and scheduling. It introduces a leading optimal flow control paradigm which results in efficient solutions for planning and scheduling problems. This book also introduces the reader to analytical and numerical methods of the maximum principle used here as a mathematical instrument in modeling and solving production planning and scheduling problems. The book examines control of production flows rather than sequencing of distinct jobs. Methodologically, this paradigm allows us to progress from initial assumptions about a manufacturing environment through mathematical models and construction of numerical methods up to practical applications which prove the relevance of the theory developed here to the real world. Given a manufacturing system, the goal is to control the production subject to given constraints in such a way that the demands are tracked as closely as possible. The book considers a wide variety of problems encountered in actual production planning and scheduling. Among the problems are production flow sequencing and timing, capacity expansion and deterioration, subcontracting and overtime. The last chapter is entirely devoted to applications of the theory to scheduling production flows in real life manufacturing systems. The enclosed disk provides software implementations of the developed methods with easy convenient user interface. We aimed this book at a student audience: final year undergraduates as well as master and Ph D.

**Optimal Flow Control in Manufacturing Systems** O. Maimon, E. Khmelnitsky, K. Kogan, 2013-03-09 This book presents a unified optimal control approach to a large class of problems arising in the field of production planning and scheduling. It introduces a leading optimal flow control paradigm which results in efficient solutions for planning and scheduling problems. This book also introduces the reader to analytical and numerical methods of the maximum principle used here as a mathematical instrument in modeling and solving production planning and scheduling problems. The book examines control of production flows rather than sequencing of distinct jobs. Methodologically, this paradigm allows us to progress from initial assumptions about a manufacturing environment through mathematical models and construction of numerical methods up to practical applications which prove the relevance of the theory developed here to the real world. Given a manufacturing system, the goal is to control the production subject to given constraints in such a way that the demands are tracked as closely as possible. The book considers a wide variety of problems encountered in actual production planning and scheduling. Among the problems are production flow sequencing and timing, capacity expansion and deterioration, subcontracting and overtime. The last chapter is entirely devoted to applications of the theory to scheduling production flows in real life manufacturing systems. The enclosed disk provides software implementations of the developed methods with easy convenient user interface. We aimed this book at a student audience: final year undergraduates as well as master and Ph D.

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Duffuaa, Abdul Raouf, Jezdimir Knezevic, Daoud Ait-Kadi, 2009-07-30 To be able to compete successfully both at national and international levels production systems and equipment must perform at levels not even thinkable a decade ago Requirements for increased product quality reduced throughput time and enhanced operating effectiveness within a rapidly changing customer demand environment continue to demand a high maintenance performance In some cases maintenance is required to increase operational effectiveness and revenues and customer satisfaction while reducing capital operating and support costs This may be the largest challenge facing production enterprises these days For this maintenance strategy is required to be aligned with the production logistics and also to keep updated with the current best practices Maintenance has become a multidisciplinary activity and one may come across situations in which maintenance is the responsibility of people whose training is not engineering This handbook aims to assist at different levels of understanding whether the manager is an engineer a production manager an experienced maintenance practitioner or a beginner Topics selected to be included in this handbook cover a wide range of issues in the area of maintenance management and engineering to cater for all those interested in maintenance whether practitioners or researchers This handbook is divided into 6 parts and contains 26 chapters covering a wide range of topics related to maintenance management and engineering

*Stochastic Processes: Modeling and Simulation* D N Shanbhag, Callyampudi Radhakrishna Rao, 2003-02-24 This sequel to volume 19 of Handbook on Statistics on Stochastic Processes Modelling and Simulation is concerned mainly with the theme of reviewing and in some cases unifying with new ideas the different lines of research and developments in stochastic processes of applied flavour This volume consists of 23 chapters addressing various topics in stochastic processes These include among others those on manufacturing systems random graphs reliability epidemic modelling self similar processes empirical processes time series models extreme value theory applications of Markov chains modelling with Monte Carlo techniques and stochastic processes in subjects such as engineering telecommunications biology astronomy and chemistry particular with modelling simulation techniques and numerical methods concerned with stochastic processes The scope of the project involving this volume as well as volume 19 is already clarified in the preface of volume 19 The present volume completes the aim of the project and should serve as an aid to students teachers researchers and practitioners interested in applied stochastic processes

**Mechatronics in Engineering Design and Product Development** Dobrivojic Popovich, 1998-09-30 This work presents a systematic and comprehensive overview to the theory and applications of mechatronic processes emphasizing the adaptation and incorporation of this important tool in fulfilling desired performance and quality requirements The authors address the core technologies needed for the design and development of the mechatronic product

, 1997 **INTERNATIONAL JOURNAL OF PRODUCTION ECONOMICS: MANUFACTURING SYSTEMS, STRATEGY & DESIGN**, 1987 **Optimal Production Flow Control for a Flexible Manufacturing System** Hui Yun, Sherman X. Bai, 1996 **Reliability and Maintenance in Production Control** Z. Sinuany-Stern, 1999 *Intelligent*

*and Integrated Manufacturing Analysis and Synthesis* American Society of Mechanical Engineers. Winter Annual Meeting, 1987      **Control Theory and Advanced Technology** ,1995      *TIMS/ORSA Bulletin* Institute of Management Sciences, 1994      **INFOR.** ,2000      **The Proceedings of the Third IEEE Conference on Control Applications, August 24th-26th, 1994, Venue, the University of Strathclyde, Glasgow, Scotland, UK** IEEE Control Systems Society, 1994  
Interconnected Manufacturing Systems Harold Nicholson, 1991 This book provides an overview of the processes in discrete event manufacturing systems and emphasizes concepts relating to the interconnection of the wide range of activities involved It highlights particularly the hierarchical structural properties of interconnection and the existence of forward command and reverse monitoring flows of information and activities which are encountered in most physical biological and socio economic systems      **Manufacturing & Service Operations Management** ,2002      **Stochastic Theory and Adaptive Control** T. E. Duncan, 1992 This workshop on stochastic theory and adaptive control assembled many of the leading researchers on stochastic control and stochastic adaptive control to increase scientific exchange and cooperative research between these two subfields of stochastic analysis The papers included in the proceedings include survey and research They describe both theoretical results and applications of adaptive control There are theoretical results in identification filtering control adaptive control and various other related topics Some applications to manufacturing systems queues networks medicine and other topics are given      **Proceedings of 1995 IEEE International Conference on Robotics and Automation, May 21-27, 1995, Nagoya, Aichi, Japan** ,1995      *Mathematics of Industrial Systems III* Rainer E. Burkard, Toshihide Ibaraki, William R. Pulleyblank, 1998      **Proceedings, Rensselaer's Second International Conference on Computer Integrated Manufacturing** ,1990

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