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Mathematical Tools in Production Management

J. M. Proth and H. P. Hillion

Mathematical Tools In Production Management

Alexandre Dolgui, Jean-Marie Proth



Mathematical Tools In Production Management:

Mathematical Tools in Production Management Jean-Marie Proth, Herve P. Hillion, 1990-07-31 The authors of this book have been in charge of over thirty industrial contracts of various length from six months to three years the companies involved covered a wide range of industrial activities including steel making hot and cold rolling aerospace research automobile manufacturing chemical manufacturing coal mining bronze casting and mechanical engineering All contracts were related to problems connected either with the preliminary design of production systems or with the management of these systems The problems that the authors investigated involved not only designing and scheduling but also the modeling analysis and evaluation of production systems The book is based to a large extent on the experience gained in working on these contracts and the mathematical procedures presented are those that have been applied during the course of work on at least one of the contracts Moreover the authors have always kept in mind an idea which seems pivotal in the world of industry the difficulty in companies lies much more in determining the exact nature of a problem and defining the criteria to be taken into account than in solving the problem itself

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comprehensive theory of matrices real complex and functional analysis Provides practical examples of modern optimization methods that can be effectively used in variety of real world applications Contains worked proofs of all theorems and propositions presented

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Manufacturing Systems Engineering Katsundo Hitomi,2017-10-19 This second edition of the classic textbook has been written to provide a completely up to date text for students of mechanical industrial manufacturing and production engineering and is an indispensable reference for professional industrial engineers and managers In his outstanding book Professor Katsundo Hitomi integrates three key themes into the text manufacturing technology production management industrial economics Manufacturing technology is concerned with the flow of materials from the acquisition of raw materials through conversion in the workshop to the shipping of finished goods to the customer Production management deals with the flow of information by which the flow of materials is managed efficiently through planning and control techniques Industrial economics focuses on the flow of production costs aiming to minimise these to facilitate competitive pricing Professor Hitomi argues that the fundamental purpose of manufacturing is to create tangible goods and it has a tradition dating back to the prehistoric toolmakers The fundamental importance of manufacturing is that it facilitates basic existence it creates wealth and it contributes to human happiness manufacturing matters Nowadays we regard manufacturing as operating in these other contexts beyond the technological It is in this unique synthesis that Professor Hitomi s study constitutes a new discipline

manufacturing systems engineering a system that will promote manufacturing excellence Key Features The classic textbook in manufacturing engineering Fully revised edition providing a modern introduction to manufacturing technology production management and industrial economics Includes review questions and problems for the student reader **Advances in Production Management Systems. Value Networks: Innovation, Technologies, and Management** Jan Frick,Bjørge Timenes Laugen,2012-09-26 This book constitutes the thoroughly refereed post conference proceedings of the International IFIP WG 5.7 Conference on Advances in Production Management Systems APMS 2011 held in Stavanger Norway in September 2011 The 66 revised and extended full papers were carefully reviewed and selected from 124 papers presented at the conference The papers are organized in 3 parts production process supply chain management and strategy They represent the breadth and complexity of topics in operations management ranging from optimization and use of technology management of organizations and networks to sustainable production and globalization The authors use a broad range of methodological approaches spanning from grounded theory and qualitative methods via a broad set of statistical methods to modeling and simulation techniques **The New Economy of the Product Life Cycle** Andrey Tyulin,Alexander Chursin,2020-03-02 This book presents the theory and practice of product lifecycle management chiefly focusing on modern approaches suitable for digitalized enterprises In addition to describing adaptive methods for advanced product creation using big data analytics it presents economic and mathematical models for managing product lifecycles based on the application of recent methods e.g. digital design and automated intelligent systems to control pre production and production processes Given its scope the book appeals to researchers economic analysts and entrepreneurs alike Supply Chain Engineering Alexandre Dolgui,Jean-Marie Proth,2010-06-02 Supply Chain Engineering considers how modern production and operations management techniques can respond to the pressures of the competitive global marketplace It presents a comprehensive analysis of concepts and models related to outsourcing dynamic pricing inventory management RFID and flexible and reconfigurable manufacturing systems as well as real time assignment and scheduling processes A significant part is also devoted to lean manufacturing line balancing facility layout and warehousing techniques Explanations are based on examples and detailed algorithms while discarding complex and unnecessary theoretical minutiae All examples have been carefully selected from an industrial application angle This book is written for students and professors in industrial and systems engineering management science operations management and business It is also an informative reference for managers looking to improve the efficiency and effectiveness of their production systems **The Electrical Engineering Handbook,Second Edition** Richard C. Dorf,1997-09-26 In 1993 the first edition of The Electrical Engineering Handbook set a new standard for breadth and depth of coverage in an engineering reference work Now this classic has been substantially revised and updated to include the latest information on all the important topics in electrical engineering today Every electrical engineer should have an opportunity to expand his expertise with this definitive guide In a single volume this

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Advances in Production Management Systems: Innovative and Knowledge-Based Production Management in a Global-Local World Bernard Grabot, Bruno Vallespir, Gomes Samuel, Abdelaziz Bouras, Dimitris Kiritsis, 2014-08-26 The three volumes IFIP AICT 438 439 and 440 constitute the refereed proceedings of the International IFIP WG 5 7 Conference on Advances in Production Management Systems APMS 2014 held in Ajaccio France in September 2014 The 233 revised full papers were carefully reviewed and selected from 271 submissions They are organized in 6 parts knowledge discovery and sharing knowledge based planning and scheduling knowledge based sustainability knowledge based services knowledge based performance improvement and case studies

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