

# Industrial Engineering And Production Management

## By M Mahajan Download

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this book is specially designed for b tech and mba students it explains in a simple but thorough manner the fundamental concepts and techniques involved in both production and operations management sufficient examples are included throughout the text to illustrate these concepts and techniques

this book presents lucid treatment of a wide range of issues involved in production and operations management it focuses on the latest techniques in production planning and control considered to be pivotal for organizations which aim at maximizing their productivity and profitability the book further discusses in detail the production system concept facility location plant layout design production scheduling mass production techniques such as assembly line balancing maintenance planning and control scheduling quality control and modern production management tools that include cim tqm and iso 9000 series primarily designed as a textbook for various courses like bbm bba b com mba and also useful for students pursuing courses production and operations management mechanical industrial and production engineering of bangalore and other indian universities salient features book is written in simple and lucid style contents are presented in a most meticulous manner charts are provided for easy understanding of the concepts exercises are designed for self evaluation and include objective type analytical type and application type questions contains examination question bank contains exhaustive glossary of terminologies focuses on materials management concepts and techniques focuses on plant location and layout concepts focuses on statistical quality control concepts and technique focuses on industrial engineering concepts such as time motion study maintenance management waste management automation

structured around the 5 ps model product plant processes programmes and people this text considers production and operations management this edition contains greater coverage of quality and reliability short term forecasting and new material on opt mrp and mrp ii

production and manufacturing management since the 1980s has absorbed in rapid succession several new production management concepts manufacturing strategy focused factory just in time manufacturing concurrent engineering total quality management supply chain management flexible manufacturing systems lean production mass customization and more with the increasing globalization of manufacturing the field will continue to expand this encyclopedia s audience includes anyone concerned with manufacturing techniques methods and manufacturing decisions

the production management is the process of producing products through manufacture of raw materials into finished goods the concept of production management was invented at the time of industrialisation production management is a broad field and its usage is recognised in multiple areas which are concerned with providing services to the consumers a production manager is required in fields like in theatres as stage manager human resources management accounting and financial management etc a production manager s job working in an industry is to regulate the design of the product according to the wants of the customers it also keeps a check on provision of raw materials work force money materials and methods which are important for the manufacture of the desired product proper product planning and control is employed to avoid faults in the manufacturing process of the product to prevent the

company from passing through the loss phase be it in the case of resources or the reputation that the company has developed over the years of work the production management department of the organisation is said to be the most important part of the organisation many other areas of work are affected if production management is not carried out properly and therefore is also referred to as the nervous system of an organisation

this volume includes 41 revised papers selected from 125 papers presented at the th 6 ifip technical committee 5 working group 5 7 international conference on advances in production management systems apms 96 held at kyoto japan 4 6 november 1996 the task of selecting papers was accomplished by the ipc members voting the selected papers were reviewed by ipc members who attended the conference based on the comments of reviewers each paper was revised and rewritten in the format of this book therefore the quality of each paper was raised very much the papers selected in this volume were classified into invited articles and six themes taking into account the perspectives and future challenges in production management systems invited articles provide the overview of the present and future trend in the manufacturing world six themes were next generation manufacturing systems and production management benchmarking integration in manufacturing and decentralized production management strategic aspects production planning and production scheduling each theme covers important area of present and future production management reflecting the recent trend in manufacturing toward globalization agility in variety production human centered manufacturing environment consciousness and so on we hope that this volume will emerge a lot of new ideas to reach the goal of ifip wg5 7 computer aided production management and to bridge the gap between research and industrial practice in production management systems

1 nature and scope of production management 2 production planning and control ppc 3 ppc and production systems 4 types of production systems 5 product design and development 6 plant location 7 plant layout 8 introduction to materials management 9 inventory control basic consideration 10 inventory control techniques 11 storekeeping 12 inspection and quality control 13 techniques of quality control

concerns the management of the essential parts of any business the goods producing and service producing processes this revised and updated edition includes 22 international case studies which illustrate the practical applications of issues discussed in the book

this text complements production and operations management 5th ed it is an introductory text intended for those who are totally new to the subject and or who seek a familiarity rather than a full working knowledge an elbs lpbb edition is available

since the beginning of mankind on earth if the business process was successful then some form of benefit sustained it the fundamentals are obvious get the right inputs materials labor money and ideas transform them into highly demanded quality outputs and make it available in time to the end consumer illustrating how operations relate to the rest of the organization production and operations management systems provides an understanding of the production and operations management p om functions as well as the processes of goods and service producers the modular character of the text permits many different journeys through the materials if you like to start with supply chain management chapter 9 and then move on to inventory management chapter 5 and then quality management chapter 8 you can do so in that order however if your focus is product line stability and quick response time to competition you may prefer to begin with project management chapter 7 to reflect the continuous project mode required for fast redesign rapid response slides lectures excel worksheets and solutions to short and extended problem sets are available on the downloads updates tabs the project management component of p om is no longer an auxiliary aspect of the field the entire system has to be viewed and understood the book helps students develop a sense of managerial competence in making decisions in the design planning operation and control of manufacturing production and operations systems through examples and case studies the text uses analytical techniques when necessary to develop critical thinking and to sharpen decision making skills it makes production and operations management p om interesting even exciting to those who are embarking on a career that involves business of any kind

this book explains why operations management tools are critical and how to successfully use them over 200 examples from real companies show how non operations professionals are using operations management concepts daily it also introduces operations strategy early and often throughout to show how operational decisions are crucial to developing and executing a company s overall strategy production systems and operations management operations strategy tours of operations forecasting capacity planning and facility location selecting the process structure and technology the quality management system aggregate planning managing materials with dependent demands operations and personnel scheduling project planning and scheduling

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