

Industrial Engineering By Martand Telsang

The present multicolor edition has been thoroughly revised and brought up-to-date. Multicolor pictures have been added to enhance the content value and to give the students an idea of what he will be dealing in reality, and to bridge the gap between theory and practice. This book has already been included in the 'suggested reading' for the A.M.I.E. (India) examinations.

The book "Industrial Engineering and Management" covers the syllabus of the subjects Industrial Engineering, Industrial Management, Production Planning and Control, Production Management, Engineering Economics and Costing, Industrial Organization, Principles of Management prescribed by different Indian Universities. The book is also useful for the students of management courses, section B of AIME, and U.P.S.C Engineering Services Examination. Efforts have been made to present the subject-matter in concise, compact and simple language. The theoretical concepts have been supported by large number of numerical illustrations to provide clarity.

Poised to influence innovative management thinking into the 21st century, Total Productivity Management (TPMgt), written by one of the pioneers of productivity management, has been a decade in the making. This landmark publication is the most extensive book available on the subject of total productivity management. At a time when downsizing and layoffs are the norm, this innovative and highly organized book shows you how to treat human resource situations with a caring, customer-oriented, yet competitive attitude through integration of technical and human dimensions. This book makes use of a set of proven models and provides a systematic framework and structure to link total productivity to an organization's profitability. Total Productivity Management describes the tasks required of all constituents in an understandable format that they can relate to and by which regards can be realized for performance in all resource categories including direct labor, administrative staff, managers, professional personnel, materials, liquid assets, technologies, energy, and other areas.

Suitable for engineering and management courses, this book intends to develop an understanding of the basic management concepts required in different engineering disciplines, and meets the specific requirements of students pursuing B Tech/M Tech courses and MBA, Post graduate Diploma in Management/Engineering Management.

The purpose of this book is to present an introduction to the multidisciplinary field of automation and robotics for industrial applications. The companion files include numerous video tutorial projects and a chapter on the history and modern applications of robotics. The book initially covers the important concepts of hydraulics and pneumatics and how they are used for automation in an industrial setting. It then moves to a discussion of circuits and using them in hydraulic, pneumatic, and fluidic design. The latter part of the book deals with electric and electronic controls in automation and final chapters are devoted to robotics, robotic programming, and applications of robotics in industry. eBook Customers: Companion files are available for downloading with order number/proof of purchase by writing to the publisher at info@merclearning.com. Features: * Begins with introductory concepts on automation, hydraulics, and pneumatics * Covers sensors, PLC's, microprocessors, transfer devices and feeders, robotic sensors, robotic grippers, and robot programming

This thoroughly revised book, now in its second edition, gives a complete coverage of the fundamental concepts and applications of Production Engineering. Divided into six parts, the text covers the various theoretical concepts, design and process of metal cutting, the design and mechanism of various machine tools, and various aspects of precision measurement and manufacturing. The concepts and processes of metal working and the design of press tools, various modern methods of manufacturing, such as ultrasonic machining (USM), electrochemical deburring (ECD), and hot machining are also covered. A variety of worked-out examples and end-of-chapter review questions are provided to strengthen the grasp as well as to test the comprehension of the underlying concepts and principles. The text is extensively illustrated to aid the students in gaining a thorough understanding of various production processes and the principles behind them. The text is intended to serve the needs of the undergraduate students of Mechanical Engineering and Production Engineering. The postgraduate students of Mechanical Engineering and Production Engineering will also find the book highly useful. Key Features • Incorporates a new chapter on Grinding and other Abrasive metal removal processes. • Includes new sections on – Electric motors for machine tools in Chapter 18. – Production of screw threads in Chapter 22. – Linear precision measurement, surface finish, and machine tools in Chapter 23. • Presents several new illustrative examples throughout the book.

While writing the book, we have continuously kept in mind the examination requirements of the students preparing for U.P.S.C. (Engg. Services) and A.M.I.E. (I) examinations. In order to make this volume more useful for them, complete solutions of their examination papers up to 1975 have also been included. Every care has been taken to make this treatise as self-explanatory as possible. The subject matter has been amply illustrated by incorporating a good number of solved, unsolved and well graded examples of almost every variety.

An attempt has been made by the authors in this book to explain the general principles of the subject of Town Planning. The subject matter is expressed in a simple language and practical manner. The treatment is clear, methodical as well as interesting and easy to follow.

Here at last is a major revision of a definitive reference on industrial engineering principles and practices. It includes these topics: the industrial function; industrial engineering in practice; methods engineering; work-measurement techniques; work-measurement application and control; incentive programs; manufacturing engineering; human factors, ergonomics, and human relations; economics and controls; facilities and material flow; mathematics and optimization techniques; and special industry applications. With 800 illustrations and an index. This book on Highway Engineering shall be useful for B.E./B.Tech & M.E/ M.Tech students of Civil Engineering. It shall also be useful for practicing Engineering and designers.

Signals and Systems is a comprehensive textbook designed for undergraduate students of engineering for a course on signals and systems. Each topic is explained lucidly by introducing the concepts first through abstract mathematical reasoning and illustrations, and then through solved examples-

Thousands of students write the GATE Paper annually. The level of competition is fierce, owing to the increasing competition every year for a limited number of seats. If you are a serious aspirant, it is advisable to prepare for GATE with the right books. A major game-changer is the habit to practice and revise the concepts and this is why our GATE 2021 guide of computer Science and Information Technology is your best bet to be GATE ready! The entire book has been divided into units. These units are divided into chapters, further segmented into topics. The questions given with the Unit have detailed answers, supported by in-depth explanations and diagrams. With the right effort and proper guidance, we're sure that you will be able to face GATE 2021 confidently. Features: 1. A comprehensive theory with concepts ample questions supplemented with solutions and diagrams 2. Analysis of previous year papers thoroughly revised and updated 3. 3 full-length mock tests. 4. As per the latest syllabus of August 2020.

Revised and updated, this second edition of Design of Hydraulic Gates maintains the same goal as the original: to be used as a textbook and a manual of design of gates, presenting the main aspects of design, manufacture, installation and operation of hydraulic gates, while introducing new products, technologies and calculation procedures. This edition included new chapters on intake gates and trashrack design, highlighting the aspects of safety, operational and maintenance procedures. To improve the strength against structural failure of intake trashracks, the author proposes a series of rigid calculation assumptions, design parameters and manufacturing procedures, which will certainly result in safer trashracks. Some 340 drawings and photographs, 82 tables, 107 references and 23 worked examples help the reader to understand the basic concepts and calculation methods presented.

KEY BENEFIT: This text allows students to apply what they've learned to real company challenges and best practices by offering a multitude of problems in the text and integrated case studies on video. **KEY TOPICS:** Its coverage includes an extensive amount of service applications and firms to give students an in-depth look at operations in the real world. **MARKET:** For general business students interested in operations management and gaining the fundamental working knowledge of a firm.

A comprehensive handbook that covers the entire spectrum of modern industrial engineering from a practical standpoint.

Describes and discusses the utility of and weighs advantages and limitations of the methodology for: methods of engineering, performance measurement, ergonomics, manufacturing engineering, quality control, engineering economy, information systems, and quantitative methods. Case studies demonstrate numerous applications.

Introducing various contemporary practices, this book shows how to approach facilities planning with precision. It guides the reader through each step in the planning process, from defining requirements to developing alternative material, handling techniques and manufacturing/waterhouse operations to selecting and evaluating facilities plans.

The author have used numerical examples as the means for presentation of the underlying ideas of different operations research techniques. Accordingly, a large number of comprehensive solved examples, taken from a variety of fields, have been added in every chapter and they are followed by a set of unsolved problems with answers (and hints wherever required) through which readers can test their understanding of the subject matter. The book, in its present form, contains around 650 examples, 1,280 illustrative diagrams.

A groundbreaking and comprehensive reference that's been a bestseller since 1970, this new edition provides a broad mathematical survey and covers a full range of topics from the very basic to the advanced. For the first time, a personal tutor CD-ROM is included.

Merging the benefits of two well-known methodologies, Lean Thinking and Total Productive Maintenance, Lean TPM shows how to secure increased manufacturing efficiency. Based on their experience of working with organisations that have successfully achieved outstanding performance, McCarthy and Rich provide the tools and techniques that convert strategic vision into practical reality. Lean TPM accelerates the benefits of continuous improvement activities within any manufacturing environment by challenging wasteful working practices, releasing the potential of the workforce, targeting effectiveness and making processes work as planned. * Unites world-class manufacturing, Lean Thinking and Total Productive Maintenance (TPM) * Shows how to achieve zero breakdowns * Optimises processes to deliver performance and new products efficiently * Delivers benefit from continuous improvement activities quickly Lean TPM provides a single change agenda for organisations. It will help to develop robust supply chain relationships and to optimise the value generating process. Supported by an integrated route map and comprehensive benchmark data, this book enables engineers, technicians and managers to explore this potent technique fully. * Unites the concepts of world-class manufacturing, Lean and TPM. * Shows how to accelerate the benefits gained from continuous improvement activities. * Includes an integrated route map for Lean TPM, including benchmark data.

This is the revised edition of the book with new chapters to incorporate the latest developments in the field. It contains approx. 200 problems from various competitive examinations (GATE, IES, IAS) have been included. The author does hope that with this, the utility of the book will be further enhanced.

For close to 20 years, "Industrial Engineering and Production Management" has been a successful text for students of Mechanical, Production and Industrial Engineering while also being equally helpful for students of other courses including Management. Divided in 5 parts and 52 chapters, the text combines theory with examples to provide in-depth coverage of the subject.

The book has been designed for undergraduate students studying Mechanical Engineering or Industrial Engineering. It discusses various concepts and provides practical knowledge related to the area of Industrial Engineering and Management. The book lucidly covers Project Management, Quality Management, Costing etc. in detail to develop the required skills among the students.

Written specifically for the students of Mechanical Engineering, "Mechanical Vibrations" is a succinctly written textbook. Without being verbose, the textbook delves into all concepts related to the subject and deals with them in a laconic manner. Concepts such as Freedom Systems, Vibration Measurement and Transient Vibrations have been treated well for the student to get profounder knowledge in the subject.

The Book Explains The Subject Through A Series Of Graded Questions And Answers And Thus Helps The Students In A Better Preparation For Their Examinations. Some Questions Are Of Short Answer Type For Which Answers Are Presented In A Paragraph. Some Questions Are Of Subjective Type For Which Answers Are Presented At Length. Whenever Quantitative Techniques Arise, The Procedures Are Discussed Giving The Logical/Scientific Basis For The Various Steps Or Operations. Techniques Are Illustrated. Emphasis Is Laid On Analyzing Different Classes Of Managerial Problems By Properly Modelling And Tackling Them Using The Right Technique/S. The Book Covers The Core Subjects Of Industrial Engineering, Like Productivity Engineering, Work Method Design And Work Measurement, Linear Programming, Classical Optimization, Reliability And Quality Engineering, Production Economics And Financial Management And Production Management. Designed For Undergraduate And Postgraduate Students Of Both Engineering And Management Streams, It Is Hoped That This Book Would Not Only Help Them In Preparing For Examinations But Would Also Enable Them To Emerge As Successful Managers. The Book Would Also Be Extremely Useful For Candidates Appearing In Gate And Other Competitive Examinations.

Describes the Maynard Operation Sequence Technique of calculating methods time measurement in industrial engineering, designed to be used in conjunction with classroom training and certification. The second edition (first in 1980) explains the various versions of the system and its translation to both large and small computers. Annotation copyrighted by Book News, Inc., Portland, OR

This book, which is a result of the author's many years of teaching, exposes the readers to the fundamentals of mechanical vibrations and noise engineering. It provides them with the tools essential to tackle the problem of vibrations produced in machines and structures due to unbalanced forces and the noise produced thereof. The text lays emphasis on mechanical engineering applications of the subject and

develops conceptual understanding with the help of many worked-out examples. What distinguishes the text is that three chapters are devoted to Sound Level and Subjective Response to Sound, Noise: Effects, Ratings and Regulations and Noise: Sources, Isolation and Control. Importance of mathematical formulation in converting a distributed parameter vibration problem into an equivalent lumped parameter problem is also emphasized. Primarily designed as a text for undergraduate and postgraduate students of mechanical engineering, this book would also be useful for undergraduate and postgraduate students of civil, aeronautical and automobile engineering as well as practising engineers.

Industrial Engineering and Production Management S. Chand Publishing

Our economy and future way of life depend on how well American manufacturing managers adapt to the dynamic, globally competitive landscape and evolve their firms to keep pace. A major challenge is how to structure the firms environment so that it attains the speed and low cost of high-volume flow lines while retaining the flexibility and customization potential of a low-volume job shop. The books three parts are organized according to three categories of skills required by managers and engineers: basics, intuition, and synthesis. Part I reviews traditional operations management techniques and identifies the necessary components of the science of manufacturing. Part II presents the core concepts of the book, beginning with the structure of the science of manufacturing and a discussion of the systems approach to problem solving. Other topics include behavioral tendencies of manufacturing plants, push and pull production systems, the human element in operations management, and the relationship between quality and operations. Chapter conclusions include main points and observations framed as manufacturing laws. In Part III, the lessons of Part I and the laws of Part II are applied to address specific manufacturing management issues in detail. The authors compare and contrast common problems, including shop floor control, long-range aggregate planning, workforce planning and capacity management. A main focus in Part III is to help readers visualize how general concepts in Part II can be applied to specific problems. Written for both engineering and management students, the authors demonstrate the effectiveness of a rule-based and data driven approach to operations planning and control. They advance an organized framework from which to evaluate management practices and develop useful intuition about manufacturing systems.

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