

A Text Of Production Engineering By P C Sharma

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Fundamentals of Modern Manufacturing - Mikell P. Groover
1996-01-15

This book takes a modern, all-inclusive look at manufacturing processes. Its coverage is strategically divided—65% concerned with manufacturing process technologies, 35% dealing with engineering materials and production systems.

Advanced Reservoir and Production Engineering for Coal Bed Methane - Pramod Thakur 2016-10-05

Advanced Reservoir and Production Engineering for Coal Bed Methane presents the reader with design systems that will maximize production from worldwide coal bed methane reservoirs. Authored by an expert in the field with more than 40 years of experience, the author starts with much needed introductory basics on gas content and diffusion of gas in coal, crucial for anyone in the mining and natural gas industries. Going a step further, chapters on hydrofracking, horizontal drilling technology, and production strategies address the challenges of dewatering, low production rates, and high development costs. This book systematically addresses all three zones of production levels, shallow coal, medium depth coal, and deep coal with coverage on gas extraction and production from a depth of 500 feet to upwards of 10,000 feet, strategies which cannot be found in any other reference book. In addition, valuable content on deep coal seams with content on enhanced recovery, a discussion on CO₂ flooding, infra-red heating and even in-situ combustion of degassed coal, giving engineers a greater understanding on how today's shale activities can aid in enhancing production of coal bed for future natural gas production. Delivers how to recover and degas deeper coal seams while lowering development costs Addresses both sorption process and irreducible fraction of gas in coal, with examples based on the author's 40 plus years of direct experience Explains how the same techniques used for production from deep shale activity can produce gas from deep coal seams with the help of enhanced recovery, leading to increased gas production

Product Design for Manufacture and Assembly - Geoffrey Boothroyd
2010-12-08

Hailed as a groundbreaking and important textbook upon its initial publication, the latest iteration of Product Design for Manufacture and Assembly does not rest on those laurels. In addition to the expected updating of data in all chapters, this third edition has been revised to provide a top-notch textbook for university-level courses in product

Introduction to Manufacturing Processes - Mikell P. Groover
2011-10-11

Michele Groover's first issue of Manufacturing Processes builds upon much of the content from his 4th edition, of Fundamentals of Modern Manufacturing. The text incorporates design topics, balance quantitative and qualitative coverage; offers most current information on latest developments in the field; and makes the topic of manufacturing processes exciting with visualizing processes. The text also includes several case studies expanded upon online with related assessment content along with videos with related assessment questions. The text includes "hot topics" pedagogical elements with discussions ranging from lean manufacturing to green engineering to nanotechnology as well as an end chapter containing "putting it all together" systems analysis type exercises.

Production Technology - K. L. Narayana 2010-09-30

A salient feature of this book is the combination of qualitative as well as quantitative treatment while dealing with the subject. The book is presented in a simple and lucid style to aid the students understand the subject at a glance. Several worked out examples, review and objective-type questions are also given at the end of each chapter. It is an ideal introductory textbook in Production Technology.

A Textbook of Manufacturing Technology - R. K. Rajput 2007

Manufacturing Engineering Education - J Paulo Davim 2018-09-19
Manufacturing Engineering Education includes original and unpublished chapters that develop the applications of the manufacturing engineering education field. Chapters convey innovative research ideas that have a prodigious significance in the life of academics, engineers, researchers and professionals involved with manufacturing engineering. Today, the interest in this subject is shown in many prominent global institutes and universities, and the robust momentum of manufacturing has helped the U.S. economy continue to grow throughout 2014. This book covers manufacturing engineering education, with a special emphasis on curriculum development, and didactic aspects. Includes original and unpublished chapters that develop the applications of the manufacturing engineering education principle Applies manufacturing engineering education to curriculum development Offers research ideas that can be applied to the work of academics, engineers, researchers and professionals

Advances on Mechanics, Design Engineering and Manufacturing III - Lionel Roucoules 2021-04-21

This open access book gathers contributions presented at the International Joint Conference on Mechanics, Design Engineering and Advanced Manufacturing (JCM 2020), held as a web conference on June 2-4, 2020. It reports on cutting-edge topics in product design and manufacturing, such as industrial methods for integrated product and process design; innovative design; and computer-aided design. Further topics covered include virtual simulation and reverse engineering; additive manufacturing; product manufacturing; engineering methods in medicine and education; representation techniques; and nautical, aeronautics and aerospace design and modeling. The book is organized into four main parts, reflecting the focus and primary themes of the conference. The contributions presented here not only provide researchers, engineers and experts in a range of industrial engineering subfields with extensive information to support their daily work; they are also intended to stimulate new research directions, advanced applications of the methods discussed and future interdisciplinary collaborations.

[Technical Book Review Index - 1924](#)

Production Systems Engineering - Jingshan Li 2008-11-13

Production Systems Engineering (PSE) is an emerging branch of Engineering intended to uncover fundamental principles of production systems and utilize them for analysis, continuous improvement, and design. This volume is the first ever textbook devoted exclusively to PSE. It is intended for senior undergraduate and first year graduate students interested in manufacturing. The development is first principle-based rather than recipe-based. The only prerequisite is elementary Probability Theory; however, all necessary probability facts are reviewed in an introductory chapter. Using a system-theoretic approach, this textbook provides analytical solutions for the following problems: mathematical modeling of production systems, performance analysis, constrained improvability, bottleneck identification and elimination, lean buffer design, product quality, customer demand satisfaction, transient behavior, and system-theoretic properties. Numerous case studies are presented. In addition, the so-called PSE Toolbox, which implements the algorithms developed, is described. The volume includes numerous case studies and problems for homework assignment.

Quarterly Bulletin of the Providence Public Library - Providence Public Library (R.I.) 1924

QUALITY MANAGEMENT - R. PANNEERSELVAM 2014-04-02

This comprehensive text on Quality Management provides ways and means of delivering efficient and effective production/services quality to

utmost satisfaction of the customers. Comprising 20 chapters, the book explains the concepts and techniques of quality management supported with related case studies. Numerical examples given in each chapter help students to understand the concept easily. Primarily designed for MBA, ME/MTech (Industrial Engineering, Production Engineering), BE/BTech (Mechanical Engineering and Production Engineering) and MSc (Operations Research and Statistical Quality Control), the book also serves as a reference for professionals/consultants to carryout projects in quality domain for manufacturing or service organisations. **KEY FEATURES OF THE BOOK** • Detailed coverage of process and statistical quality control • Chapters on ANOVA, orthogonal arrays and signal-to-noise ratio • A chapter on Six Sigma including Shainin techniques • A chapter on Analytical Hierarchy Process (AHP) • Presentation of Design of Experiments (DOE) techniques Audience • MBA • ME/MTech (Industrial Engineering, Production Engineering) • BE/BTech (Mechanical Engineering and Production Engineering) • MSc (Operations Research and Statistical Quality Control)

Special Issue of the Manufacturing Engineering Society 2019 (SIMES-2019) - Eva M. Rubio 2021-01-06

This Special Issue of the Manufacturing Engineering Society 2019 (SIMES-2019) has been launched as a joint issue of the journals Applied Sciences and Materials. The 10 contributions published in this Special Issue of Applied Sciences present cutting-edge advances in the field of manufacturing engineering, focusing on production planning, sustainability, metrology, cultural heritage, and materials processing, with experimental and numerical results. It is worth mentioning that the topic "production planning" has attracted a great number of contributions in this journal, due to their applicative approach.

A Textbook of Engineering Materials and Metallurgy - A. Alavudeen 2006

Natural Gas Production Engineering - Mohan Kelkar 2008

"Consumption and demand for natural gas rises annually throughout the world. Finding, drilling, extracting, processing and transporting natural gas remains a demanding challenge. This new book presents the quintessential guide for reservoir engineers, production engineers, production geologists, and more."--BOOK JACKET.

Industrial Engineering and Management - P Sivasankaran 2022-09-10

Population growth, modern living, and the increasing demand for basic necessities compel businesses to be more efficient and effective in their manufacturing and service operations if they are to produce goods and provide services at prices that will satisfy a wide range of customers amid intense competition. Industrial engineering and management cover the essential concepts and methods for running businesses successfully. Dr.P. Sivasankaran, who had taught this subject of industrial engineering and management for more than a decade at Anna University and its affiliated colleges as well as affiliated colleges of Pondicherry University, had recognized the need for a comprehensive text combining these two disciplines and had written this as a result of his rich teaching and research experience. This will serve as a text book for the students of B.E./B.Tech./B.S. (Mechanical Engineering, Production Engineering, Industrial Engineering, Mechatronics Engineering and Industrial Systems Engineering), M.E./M.Tech./M.S. (Industrial Engineering, Manufacturing Systems Management, Production/ Manufacturing Engineering, and Industrial Systems Engineering) and M.B.A. This text begins with plant layout studies, which includes need to locate a plan, influencing factors for plant location and evaluation of location alternatives. Chapter 2 presents plant layout, which discusses types of production systems, mass production system, principles of layout and types of layout. It is followed by a chapter on line balancing, which includes topics on frame of assembly line, types of assemble line, rank positional weight method for single model assembly line balancing and introduction to mixed model assembly line balancing. Chapter 4 presents role of material handling, types of material handling, automated material handling, principles of material handling, factors influencing the selection of material handling equipment and types of material handling equipment. Next, Chapter 5 is on work study, which includes method study, and work measurement techniques. The method study presents different recording techniques, charts and principle of motion economy. The work measurement includes time study, work sampling and predetermined motion time system (PMTS). The next chapter is on production planning and control, which presents functions of production planning and control, materials management, inventory control and production scheduling. Following this chapter, the chapter 7 presents quality control, which includes control charts and acceptance sampling

plan. Chapter 8 presents management concepts with detailed focus on nature of management, levels of management, functions of management, and contribution of F.W Taylor and Hendry Fayol to theories of management. Chapter 9 presents need for financial planning, objectives of financial planning, functions of financial management, evaluation of alternatives and break-even analysis. The next chapter 10 is on marketing management, which focusses on marketing philosophy, pricing, channels of distribution, advertising, market research, and SWOT analysis. At the end, human resource management is presented which addresses objectives of human resource management, roles of human resource management, nature of human resource management, scope of human resource management, Maslow's hierarchy of needs, job analysis, job evaluation and management by objectives (MBO). This text is written in easy-to-read style with lot of illustrations to explain the concepts with suitable techniques. Each chapter contains review questions at its end. The author expresses his sincere thanks to all his academic colleagues within his institute and in other institutions for their encouraging support while writing this text. The author sincerely thanks Amazon for their support in providing a platform to publish this book. P. Sivasankaran, M.E., Ph.D

Green Production Engineering and Management - Carolina Machado 2022-02-10

Green Production Engineering and Management is an interdisciplinary collection of the latest advances from academia and industry on the management of production engineering in a green and responsible way. Background theory, methods, tools and techniques, and case study examples are all combined to make a complete guide for researchers, engineers, and managers. The interdisciplinary approach taken by this book allows a holistic understanding of a complex problem, helping readers with management backgrounds to better appreciate production engineering issues and vice versa. Themes such as social responsibility, green manufacturing, and productivity management are all tackled together, helping the reader see how they are all linked in the industrial environment, and how new advances in one field could lead to benefits in others. Through the interdisciplinary exchange of principles, strategies, models, methodologies, and applications, this book hopes to uncover new ways to manage, think, and understand organizations, making them more strategic and competitive in the markets where they are or which they seek to occupy in the near future. Includes case studies from industry, illustrating how the advances discussed can be applied in the real world. Covers the environmental regulations relevant to green production and will help readers find better ways to meet them. Draws on research from several different disciplines to help readers discover innovative solutions to complex problems.

Engineering Economics and Financial Accounting - Kesavan 2005

Manufacturing Engineering - John P. Tanner 2020-07-24

Revised and updated introduction, useful as a reference source for engineers and managers or as a text for upper-level undergraduate and graduate courses in technical colleges and universities. Includes end-of-chapter questions (an answer book is provided for teachers). Annotation copyright Book New

A Textbook of Production Engineering - P C Sharma 1999

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.

Production Technology, Fourth Edition - K. L. Narayana 2018-03-07

Production Technology is intended for the students of B.Tech in Mechanical, Production and Manufacturing Engineering. It deals with fundamental concepts of Foundry, Forming, Welding technologies and Foundry mechanization. Additionally, material regarding furnaces, Solidification of castings, Casting defects, Metals and alloys and Plastics has been provided. The book covers both theoretical and analytical concepts. The analytical concepts are introduced starting from fundamentals for easy comprehension. Several worked examples, review and objective type questions are provided at the end of each chapter. More than 150 line sketches are included, which are self-explanatory and easy to reproduce in the examination.

Manufacturing Processes and Materials, Fourth Edition - George F. Schrader 2000

This best-selling textbook for major manufacturing engineering programs across the country masterfully covers the basic processes and machinery used in the job shop, tool room, or small manufacturing facility. At the

same time, it describes advanced equipment and processes used in larger production environments. Questions and problems at the end of each chapter can be used as self-tests or assignments. An Instructor's Guide is available to tailor a more structured learning experience. Additional resources from SME, including the Fundamental Manufacturing Processes videotape series can also be used to supplement the book's learning objectives. With 31 chapters, 45 tables, 586 illustrations, 141 equations and an extensive index, Manufacturing Processes & Materials is one of the most comprehensive texts available on this subject.

Petroleum Production Engineering - Boyun Guo, 2017-02-10
Petroleum Production Engineering, Second Edition, updates both the new and veteran engineer on how to employ day-to-day production fundamentals to solve real-world challenges with modern technology. Enhanced to include equations and references with today's more complex systems, such as working with horizontal wells, workovers, and an entire new section of chapters dedicated to flow assurance, this go-to reference remains the most all-inclusive source for answering all upstream and midstream production issues. Completely updated with five sections covering the entire production spectrum, including well productivity, equipment and facilities, well stimulation and workover, artificial lift methods, and flow assurance, this updated edition continues to deliver the most practical applied production techniques, answers, and methods for today's production engineer and manager. In addition, updated Excel spreadsheets that cover the most critical production equations from the book are included for download. Updated to cover today's critical production challenges, such as flow assurance, horizontal and multi-lateral wells, and workovers Guides users from theory to practical application with the help of over 50 online Excel spreadsheets that contain basic production equations, such as gas lift potential, multilateral gas well deliverability, and production forecasting Delivers an all-inclusive product with real-world answers for training or quick look up solutions for the entire petroleum production spectrum
Fundamentals of Modern Manufacturing - Mikell P. Groover 2012-10-02
This text is an unbound, binder-ready edition. Fundamentals of Modern Manufacturing: Materials, Processes, and Systems, 5th Edition, is designed for a first course or two-course sequence in Manufacturing at the junior level in Mechanical, Industrial, and Manufacturing Engineering curricula. Given its coverage of engineering materials, it is also suitable for Materials Science and Engineering courses that emphasize Materials Processing. In addition, it may be appropriate for technology programs related to the preceding engineering disciplines. Most of the book's content focuses on Manufacturing Processes (about 65% of the text), but it also covers Engineering Materials and Production Systems.

Manufacturing Technology - II - Dr. R.Kesavan 2006

A Study of the Toyota Production System - Shigeo Shingo 1989-10-01
This is the "green book" that started it all -- the first book in English on JIT, written from the engineer's viewpoint. When Omark Industries bought 500 copies and studied it companywide, Omark became the American pioneer in JIT. Here is Dr. Shingo's classic industrial engineering rationale for the priority of process-based over operational improvements in manufacturing. He explains the basic mechanisms of the Toyota production system, examines production as a functional network of processes and operations, and then discusses the mechanism necessary to make JIT possible in any manufacturing plant. Provides original source material on Just-In-Time Demonstrates new ways to think about profit, inventory, waste, and productivity Explains the principles of leveling, standard work procedures, multi-machine handling, supplier relations, and much more If you are a serious student of manufacturing, you will benefit greatly from reading this primary resource on the powerful fundamentals of JIT.

PROCESS PLANNING AND COST ESTIMATION - PANNEERSELVAM, R.
This comprehensive text is primarily designed for BE/BTech students of mechanical engineering, manufacturing engineering, and production engineering. This text consists of 11 chapters covering concepts and techniques of process planning and cost estimation. The text is supported by well-labelled diagrams and case studies. The book contains solved problems that facilitates students to understand the concepts quickly. At the end of each chapter, theoretical questions and applicable numerical problems are given to test the understanding of the readers. Key features

- Includes classification and coding systems with fitting examples
- Contains a complete account of work study
- Provides detailed coverage of process planning
- Gives formulas of mensuration for material cost

estimation • Introduces different manufacturing processes in relevant chapters

Oil-well Cementing Practices in the United States - American Petroleum Institute. Division of Production 1959

Introduction to Basic Manufacturing Processes and Workshop Technology - Rajender Singh 2006-12

Manufacturing and workshop practices have become important in the industrial environment to produce products for the service of mankind. The basic need is to provide theoretical and practical knowledge of manufacturing processes and workshop technology to all the engineering students. This book covers most of the syllabus of manufacturing processes/technology, workshop technology and workshop practices for engineering (diploma and degree) classes prescribed by different universities and state technical boards.

Manufacturing Engineering and Technology - Serope Kalpakjian 2013

For courses in manufacturing processes at two- or four-year schools. This text also serves as a valuable reference text for professionals. An up-to-date text that provides a solid background in manufacturing processes Manufacturing Engineering and Technology, 7/e, presents a mostly qualitative description of the science, technology, and practice of manufacturing. This includes detailed descriptions of manufacturing processes and the manufacturing enterprise that will help introduce students to important concepts. With a total of 120 examples and case studies, up-to-date and comprehensive coverage of all topics, and superior two-color graphics, this text provides a solid background for manufacturing students and serves as a valuable reference text for professionals.

Future Trends in Production Engineering - Günther Schuh 2012-08-15

To meet and adapt to the current and future trends and issues in technology and society, the science committee of The German Academic Society for Production Engineering (WGP) continues to define future topics for production technology. These themes represent not only the key focus for the scientific work of the WGP, but also the central themes of the first annual conference in June 2011, whose paper is publically available in this volume. Such themes, including electric mobility, medical technology, lightweight construction, and resource efficiency, as well as mass production ability have all been identified as future, large-scale, and long-term drivers of change. Future trends influence changes sustainably and fundamentally; they permeate society, technology, economics, and value systems and have an effect in virtually all areas of life. The WGP has, as part of its research, established for itself the goal of not only observing these emerging changes, but also of supervising and influencing their development in order to ensure steady progress, secure sustainability, and shape the future.

Computer Aided Production Engineering - Hongzan Bin 2001-12-21
Innovation in all aspects of mechanical engineering and management Computer Aided Production Engineering is a compilation of papers presented at the 17th International CAPE Conference in 2001. Featuring the work of leading innovators from academia and industry, this book explores the forefront of mechanical engineering technology and practices to provide insight for today and direction for tomorrow. Broad in scope yet rich in detail, these papers cover topics ranging from supply chain management, nontraditional processes, and quality control, to machining processes, concurrent design and engineering, rapid prototyping, virtual reality applications, and much more.

Fundamentals of Manufacturing, Third Edition - Philip D. Rufe 2013
Fundamentals of Manufacturing, Third Edition provides a structured review of the fundamentals of manufacturing for individuals planning to take SME'S Certified Manufacturing Technologist (CMfgT) or Certified Manufacturing Engineer (CMfgE) certification exams. This book has been updated according to the most recent Body of Knowledge published by the Certification Oversight and Appeals Committee of the Society of Manufacturing Engineers. While the objective of this book is to prepare for the certification process, it is a primary source of information for individuals interested in learning fundamental manufacturing concepts and practices. This book is a valuable resource for anyone with limited manufacturing experience or training. Instructor slides and the Fundamentals of Manufacturing Workbook are available to complement course instruction and exam preparation. Table of Contents Chapter 1: Mathematics Chapter 2: Units of Measure Chapter 3: Light Chapter 4: Sound Chapter 5: Electricity/Electronics Chapter 6: Statics Chapter 7: Dynamics Chapter 8: Strength of Materials Chapter 9: Thermodynamics

and Heat Transfer Chapter 10: Fluid Power Chapter 11: Chemistry Chapter 12: Material Properties Chapter 13: Metals Chapter 14: Plastics Chapter 15: Composites Chapter 16: Ceramics Chapter 17: Engineering Drawing Chapter 18: Geometric Dimensioning and Tolerancing Chapter 19: Computer-Aided Design/Engineering Chapter 20: Product Development and Design Chapter 21: Intellectual Property Chapter 22: Product Liability Chapter 23: Cutting Tool Technology Chapter 24: Machining Chapter 25: Metal Forming Chapter 26: Sheet Metalworking Chapter 27: Powdered Metals Chapter 28: Casting Chapter 29: Joining and Fastening Chapter 30: Finishing Chapter 31: Plastics Processes Chapter 32: Composite Processes Chapter 33: Ceramic Processes Chapter 34: Printed Circuit Board Fabrication and Assembly Chapter 35: Traditional Production Planning and Control Chapter 36: Lean Production Chapter 37: Process Engineering Chapter 38: Fixture and Jig Design Chapter 39: Materials Management Chapter 40: Industrial Safety, Health and Environmental Management Chapter 41: Manufacturing Networks Chapter 42: Computer Numerical Control Machining Chapter 43: Programmable Logic Controllers Chapter 44: Robotics Chapter 45: Automated Material Handling and Identification Chapter 46: Statistical Methods for Quality Control Chapter 47: Continuous Improvement Chapter 48: Quality Standards Chapter 49: Dimensional Metrology Chapter 50: Nondestructive Testing Chapter 51: Management Introduction Chapter 52: Leadership and Motivation Chapter 53: Project Management Chapter 54: Labor Relations Chapter 55: Engineering Economics Chapter 56: Sustainable Manufacturing Chapter 57: Personal Effectiveness

Manufacturing Engineering - John P. Tanner 1990-12-18

Revised and updated introduction, useful as a reference source for engineers and managers or as a text for upper-level undergraduate and graduate courses in technical colleges and universities. Includes end-of-chapter questions (an answer book is provided for teachers). Annotation copyright Book New

Industrial Engineering - M.I. Khan 2004

The Book Is Primarily Intended To Meet The Demands For A Textbook On The Subject That Systematically Covers The Complete Syllabus Of Uptu On Industrial Engineering For The Second Year B.Tech. Students Of Mechanical, Industrial, Production And Metallurgical Engineering Branches. The Book Precisely Covers The Material In Required Details In A Lucid Manner Using Simple English To Enable An Average Student To Grasp The Subject. Sufficient Solved Examples Have Been Included Throughout The Text To Illustrate The Concepts. Simple Illustrative Reproducible Sketches And Diagrams Have Been Given To Help In Easy Comprehension Of The Subject. The Book Includes The Basic Topics On Industrial Engineering In Twenty Three Chapters. The First Chapter Presents A Detailed Introduction Highlighting The Subject Along With Its Need And Importance. The Book Covers Topics Like: Productivity, Workstudy, Job Evaluation, Plant Layout, Materials Handling, Production Planning And Control, Depreciation, Replacement Analysis, Inventory Control, Mrp, Tqm, Business Organization, Forms Of Ownership, Hrp, Factory Legislation, Sales Management, Forecasting Accounting, Budgetary Control, Project Management (Pert/Cpm), Break-Even Analysis, Or, Engineering Economy, Oplimisation Analysis, E-Commerce, Quality Management Of Physical Resources.

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

A Textbook of Thermal Engineering - RS Khurmi | JK Gupta 2008

Two new chapters on eneral Themodynamic Relations and Variable Specific Heat have been Added. The mistake which had crept in have been eliminated. we wish to express our sincere thanks to numerous professors and students, both at home and abroad, for sending their valuable suggestions and also for recommending the book to their students and friends.

Intelligent Systems in Production Engineering and Maintenance - Anna Burduk 2018-07-31

The book presents a collection of 103 peer-reviewed articles from the Second International Conference on Intelligent Systems in Production Engineering and Maintenance (ISPEM 2018). The conference was organized by the Faculty of Mechanical Engineering and CAMT (Centre for Advanced Manufacturing Technologies), Wrocław University of Science and Technology and was held in Wrocław (Poland) on 17-18 September 2018. The conferences topics included the possibility of using a wide range of intelligent methods in production engineering, presenting and discussing new solutions for innovative plants, research findings and case studies demonstrating advances in production and maintenance from the point of view of Industry 4.0 - particularly applications of intelligent systems, methods and tools in production engineering, maintenance, logistics, quality management, information systems and product development. The book is divided into two parts: the first includes papers related to intelligent systems in production engineering, while the second is dedicated to special sessions focusing on: 1. Computer Aided methods in Production Engineering 2. Mining 4.0 and Intelligent Mining Transportation 3. Modelling and Simulation of Production Processes 4. Multi-Faceted Modelling of Networks and Processes 5. Product Design and Product Manufacturing in Industry 4.0 This book is an excellent source of information for scientists in the field of manufacturing engineering and for top managers in production enterprises.

Manufacturing Engineering - John P. Tanner 2020-07-24

Revised and updated introduction, useful as a reference source for engineers and managers or as a text for upper-level undergraduate and graduate courses in technical colleges and universities. Includes end-of-chapter questions (an answer book is provided for teachers). Annotation copyright Book New

Design of Experiments in Production Engineering - J. Paulo Davim 2015-11-06

This book covers design of experiments (DoE) applied in production engineering as a combination of manufacturing technology with applied management science. It presents recent research advances and applications of design experiments in production engineering and the chapters cover metal cutting tools, soft computing for modelling and optimization of machining, waterjet machining of high performance ceramics, among others.