

Third Semester B.E. Degree Examination, December 2011

Manufacturing Process - I

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions, selecting at least TWO questions from each part.

PART - A

1. a. Define manufacturing process and explain primary and secondary manufacturing process. (06 Marks)
 b. Define moulding and casting. (03 Marks)
 c. What is pattern? Explain in detail various allowances given to pattern and reasons to provide the allowances. (11 Marks)
2. a. With a neat figure, explain the terminologies of sand mould. (08 Marks)
 b. Explain with a neat sketch, the working principle of Jolt type moulding machine. (06 Marks)
 c. Explain the elements involved in gating system. (06 Marks)
3. a. Explain with neat sketches, shell moulding process and Investment moulding process. (14 Marks)
 b. Explain with a neat figure Hot chamber die casting process. (06 Marks)
4. a. With respect to different zones and their chemical reaction, explain Cupola furnace with a neat figure. (10 Marks)
 b. Explain high frequency Induction furnace. (05 Marks)
 c. Mention the advantages of oil fired crucible furnace over coke fired furnace. (05 Marks)

PART - B

5. a. Define welding. Broadly classify welding process with examples in each. (05 Marks)
 b. Write a note on cleaning and edge preparation in welding. (05 Marks)
 c. Explain Tungsten wiest gas welding process with a neat figure and mention its advantages and limitations. (10 Marks)
6. a. Explain with a neat figure, Thermit welding process with advantages. (10 Marks)
 b. Explain with a neat sketch, laser beam welding process mentioning clearly the formation of laser beam. (10 Marks)
7. Write short notes on :
 a. Electrodes
 b. Residual stresses
 c. HAZ in welding
 d. Welding defects. (20 Marks)
8. a. Explain magnetic particle inspection method to test welded part with advantages and limitations. (10 Marks)
 b. Explain Induction Brazing and mention advantages and limitations. (05 Marks)
 c. Differentiate Soldering and Brazing. (05 Marks)

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Manufacturing Process 1 Book

Robert H. Todd, Dell K. Allen, Leo Alting



Manufacturing Process 1 Book:

Manufacturing Processes 1 Fritz Klocke, 2011-05-26 The book series on manufacturing processes for engineers is a reference work for scientific and industrial experts This volume on Turning Milling and Drilling starts from the basic principles of machining with geometrically defined cutting edges based on a common active principle In addition appropriate tool designs as well as the reasonable use of cutting material are presented A detailed chapter about the machinability of the most important workpiece materials such as steel and cast iron light metal alloys and high temperature resistant materials imparts a broad knowledge of the interrelations between workpiece materials cutting materials and process parameters This book is in the RWTH Edition Series as are the other four volumes of the reference work Manufacturing Processes Reference Guide Robert H. Todd, Dell K. Allen, Leo Alting, 1994 An abridgement of a 17 volume set of instructional materials this guide offers brief descriptions of some 130 manufacturing processes tools and materials in such areas a mechanical thermal and chemical reducing consolidation deformation and thermal joining Includes numerous tables and illustrations Annotation copyright by Book News Inc Portland OR **MANUFACTURING PROCESSES, SECOND EDITION** Kaushish, J. P., 2010-06-12 The revised and updated second edition of this book gives an in depth presentation of the basic principles and operational procedures of general manufacturing processes It aims at assisting the students in developing an understanding of the important and often complex interrelationship among various technical and economical factors involved in manufacturing The book begins with a discussion on material properties while laying emphasis on the influence of materials and processing parameters in understanding manufacturing processes and operations This is followed by a detailed description of various manufacturing processes commonly used in the industry With several revisions and the addition of four new chapters the new edition also includes a detailed discussion on mechanics of metal cutting features and working of machine tools design of molds and gating systems for proper filling and cooling of castings Besides the new edition provides the basics of solid state welding processes weldability heat in welding residual stresses and testing of weldments and also of non conventional machining methods automation and transfer machining machining centres robotics manufacturing of gears threads and jigs and fixtures The book is intended for undergraduate students of mechanical engineering production engineering and industrial engineering The diploma students and those preparing for AMIE Indian Engineering Services and other competitive examinations will also find the book highly useful New to This Edition Includes four new chapters Non conventional Machining Methods Automation Transfer Machining Machining Centres and Robotics Manufacturing Gears and Threads and Jigs and Fixtures to meet the course requirements Offers a good number of worked out examples to help the students in mastering the concepts of the various manufacturing processes Provides objective type questions drawn from various competitive examinations such as Indian Engineering Services and GATE **Modular Programming of Adaptive CAx Manufacturing Process Chains (E-Book)** Gunter Spöcker, 2016-11-07 The manufacturing industry is undergoing

major changes due to current trends like mass customization and Industrie 4.0. However today's CAx systems and approaches are not suitable to handle adaptive CAx process chains. To overcome this situation and to close the gaps between the existing CAx environment and the requirements for the manufacturing of the future a modular approach based on extended function blocks is presented. The proposed approach is verified based on the use case of a worn out BLIR segment by using repair features.

Manufacturing Processes H. N. Gupta, 2012-09 Effective from 2008-09 session U P T U has introduced the subject of manufacturing processes for first year engineering students of all streams. This textbook covers the entire course material in a distilled form.

Handbook of Research on Manufacturing Process Modeling and Optimization Strategies Das, Raja, Pradhan, Mohan, 2017-03-10 Recent improvements in business process strategies have allowed more opportunities to attain greater developmental performances. This has led to higher success in day to day production and overall competitive advantage. The Handbook of Research on Manufacturing Process Modeling and Optimization Strategies is a pivotal reference source for the latest research on the various manufacturing methodologies and highlights the best optimization approaches to achieve boosted process performance. Featuring extensive coverage on relevant areas such as genetic algorithms, fuzzy set theory and soft computing techniques, this publication is an ideal resource for researchers, practitioners, academicians, designers, manufacturing engineers and institutions involved in design and manufacturing projects.

Materials and Manufacturing Processes Kaushik Kumar, Hridayjit Kalita, Divya Zindani, J. Paulo Davim, 2019-06-05 This book introduces the materials and traditional processes involved in the manufacturing industry. It discusses the properties and application of different engineering materials as well as the performance of failure tests. The book lists both destructible and non destructible processes in detail. The design associated with each manufacturing processes such as Casting, Forming, Welding and Machining are also covered.

Manufacturing Process Planning José V. Abellán-Nebot, Carlos Vila Pastor, Héctor R. Siller, 2025-02-04 Comprehensive introduction to manufacturing process planning in the context of the latest techniques being used in industry. Manufacturing Process Planning is a comprehensive guide to the intricacies of the manufacturing planning process that leads readers through each stage of planning while providing practical examples that illustrate the manufacturing activities taking place at every juncture. Beginning with the fundamentals, the book bridges the gap between technical documents and product specifications and how the information they contain can be effectively applied on the shop floor. The book focuses around four key areas: selection of manufacturing processes, process planning in sand casting, process planning in machining and process planning in inspection. Each chapter highlights best practices for activities such as casting mold design, machining sequence identification, geometrical validation, CNC programming, the preparation of inspection reports and more. Special attention is paid to manufacturing cost estimation and pricing, ensuring that the production process is not only feasible but also cost effective. To enhance the learning experience, the book comes complete with an active learning project brief and tutorial sessions covering casting simulation.

pattern design and CNC simulation using freely available software Manufacturing Process Planning includes information on Fundamentals of casting including heating the metal pouring the molten metal solidification and cooling determining casting quality and performing cleaning operations Definition and selection of workholding systems covering principles of workholding types of workholding systems and general purpose of workholding devices for turning and milling Machine and cutting tool selection and process parameter selection covering specific guidelines in turning milling and drilling Documents for process planning including process flow charts routing sheets and operation and tooling lists Providing a hands on approach to mastering the principles of manufacturing process planning Manufacturing Process Planning is an ideal resource for undergraduate and graduate academic courses that incorporate a lab component as well as production planning supervisors and managers looking to hone their knowledge base

Nontraditional Manufacturing Processes Gary F. Benedict, 2017-10-19 This book provides a convenient single source of information on advanced machining material forming and joining processes It describes available technologies that use tools such as high velocity material jets pulsed magnetic fields light beams electrochemical reactions and more Organized by type of process mechanical chemical electrochemical and thermal the book discusses 31 important nontraditional processes and covers each process s principles equipment capabilities and operating parameters The author includes a list of nontraditional manufacturing firms nearly 250 figures that clearly illustrate the technologies and numerous bibliographic citations for additional reading

Unit Manufacturing Processes Unit Manufacturing Process Research Committee, Commission on Engineering and Technical Systems, Board on Manufacturing and Engineering Design, Division on Engineering and Physical Sciences, National Research Council, 1995-01-17 Manufacturing reduced to its simplest form involves the sequencing of product forms through a number of different processes Each individual step known as an unit manufacturing process can be viewed as the fundamental building block of a nation s manufacturing capability A committee of the National Research Council has prepared a report to help define national priorities for research in unit processes It contains an organizing framework for unit process families criteria for determining the criticality of a process or manufacturing technology examples of research opportunities and a prioritized list of enabling technologies that can lead to the manufacture of products of superior quality at competitive costs The study was performed under the sponsorship of the National Science Foundation and the Defense Department s Manufacturing Technology Program

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