Course Name : Diploma in Mechanical Engineering

Course Code : ME/MH/MI

Semester : Sixth

Subject Title : Design of Machine Elements

17610

Marks : 25

Time:1 Hour

Instructions:
1. All questions are compulsory.
2. Illustrate your answers with neat sketches wherever necessary.
3. Figures to the right indicate full marks.
4. Assume suitable data if necessary.
5. Preferably, write the answers in sequential order.

Q1. Attempt any THREE   **3 x 3 = 9 Marks**
a) State any six design consideration in designing the machine element.
b) Define Fatigue, Factor of Safety and Creep.
c) List steps in designing Bell crank lever.
d) Classify rigid coupling. State any one application of each.

Q2. Attempt any ONE   **1 x 8 = 8 Marks**
a) Draw neat sketch showing all details of cotter joint. State strength equations for each component with suitable failure cross sectional area.
b) Describe the importance of aesthetic considerations in design related to shape, size, color and surface finish.

Q3. Attempt any ONE   **1 x 8 = 8 Marks**
a) A line shaft is driven by means of a motor placed vertically below it. The pulley on the line shaft is 1.5 meter in diameter and has belt tension 5.4 KN and 1.8 KN on the right side and slack side of belt respectively. Both these tension may be assumed to be vertical. If the pulley be overhang from the shaft, the distance of the centre line of the pulley from the center line of the bearing being 400mm. Find the diameter of shaft, assuming maximum allowable shear stress of 42MPa.
b) Design a CI protective type flange coupling to transmit 15KW at 900 rpm from an electric motor to a compressor. Assume shear stress for shaft, bolt and key materials = 40MPa, Crushing stress for bolt and key = 80MPa and shear stress for CI material = 8MPa. Assume suitable data if required.

1

G Scheme Sample Paper For Data Structure

Giovanni De Micheli,Rolf Ernst,Wayne Wolf

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Algorithms and Data Structures Frank Dehne,John Iacono,Jörg-Rüdiger Sack,2011-07-18 Annotation Constituting the refereed proceedings of the 12th Algorithms and Data Structures Symposium held in New York in August 2011 this text presents original research on the theory and application of algorithms and data structures in all areas including combinatorics computational geometry and databases **CUET PG Entrance Exam Data Science 25 Sample Paper with Explanation for 2026 | Includes Previous Years (2022-2025) Exam Papers** Nodia,2025-12-22 The NODIA Data Science Sample Papers Book is designed to support exam preparation through structured exam focused practice aligned strictly with current NTA CUET PG standards Fully updated as per the latest NTA CUET PG Data Science syllabus the book includes solved previous year question papers 2022 2025 to help learners understand exam trends and difficulty levels It also features 25 expert curated mock tests for real exam simulation and self assessment along with concise 50 word explanations for every answer to support quick revision and effective concept recall *Oswaal ISC Question Bank Chapter-wise Topic-wise Class 12 Computer Science | For 2025 Board Exams* Oswaal Editorial Board,2024-04-09 Description of the Product 100% Updated with Latest 2025 Syllabus Fully Solved Board Specimen Paper Timed Revision with Topic wise Revision Notes Smart Mind Maps Extensive Practice with 1500 Questions Self Assessment Papers Concept Clarity with 1000 Concepts Concept Videos 100% Exam Readiness with Previous Years Exam Question MCQs **23rd Annual Symposium on Foundations of Computer Science** ,1982 *Innovations in Computing Sciences and Software Engineering* Tarek Sobh,Khaled Elleithy,2010-06-26 Innovations in Computing Sciences and Software Engineering includes a set of rigorously reviewed world class manuscripts addressing and detailing state of the art research projects in the areas of Computer Science Software Engineering Computer Engineering and Systems Engineering and Sciences Topics Covered Image and Pattern Recognition Compression Image processing Signal Processing Architectures Signal Processing for Communication Signal Processing Implementation Speech Compression and Video Coding Architectures Languages and Systems Algorithms Databases Embedded Systems and Applications File Systems and I O Geographical Information Systems Kernel and OS Structures Knowledge Based Systems Modeling and Simulation Object Based Software Engineering Programming Languages and Programming Models and tools Parallel Processing Distributed Scheduling Multiprocessing Real time Systems Simulation Modeling and Development and Web Applications Signal and Image Processing Content Based Video Retrieval Character Recognition Incremental Learning for Speech Recognition Signal Processing Theory and Methods and Vision based Monitoring Systems Software and Systems Activity Based Software Estimation Algorithms Genetic Algorithms Information Systems Security Programming Languages Software Protection Techniques Software Protection Techniques and User Interfaces Distributed Processing Asynchronous Message Passing System Heterogeneous Software Environments Mobile Ad Hoc Networks Resource Allocation and Sensor Networks New trends in computing Computers for People of Special Needs

Fuzzy Inference Human Computer Interaction Incremental Learning Internet based Computing Models Machine Intelligence Natural Language   **Model Error Concepts & Compensation** International Federation of Automatic Control,1986-06-30 Presents a state of the art review of model error concepts their characterization and compensation in estimation and control problems with particular emphasis on error propagation model order selection performance guarantees sensitivity and adaptive methods Main topics covered include linear and nonlinear systems identification robotics computer aided design signal processing computers and communication in control automation and real time control of processes   **Data Structures in C++ Including Breadth and Laboratories** Angela B. Shiflet,1995-09 Data Structures in C Including Breadth and Laboratories integrates laboratory exercises problem solving skills and breadth sections covering non programming aspects of computer science into the study of data structures An appendix on non object oriented features of C helps students froma C background get up to speed and Chapter 4 presents the aspects of OOP in C that students need in studying data structures Other aids to learning include Programming Projects over 1 000 exercises and numerous figures Laboratory programs and data files data structure implementations and program examples from the text are available via the World Wide Web   **Readings in Hardware/Software Co-Design** Giovanni De Micheli,Rolf Ernst,Wayne Wolf,2002 This title serves as an introduction ans reference for the field with the papers that have shaped the hardware software co design since its inception in the early 90s   Proceedings of the 1987 International Conference on Parallel Processing Sartaj Sahni,1987 Interest in the field of parallel processing has soared in this decade Response to the annual conference held at Pheasant Run is clear proof in the early 1980s just over 100 papers were submitted each year in 1987 over 400 papers were considered Such heightened interest is both gratifying and challenging in that the increasingly demanding applications in science medicine and industry that result from these studies are dependent upon the parallel systems as computing resources The studies in this volume describe recent advances in all aspects of parallel distributed logic circuits impact of VLSI to parallel processor architecture various concurrent distributed parallel pipeline or multiple processor architectures processor memory interconnections computer networks distributed databases reliability and fault tolerance modeling and simulation techniques performance measurements operating systems languages algorithms mathematical analysis and various application studies A rigorous standard governed the paper selection process in an effort to insure that the proceedings reflect the state of the art in parallel processing theory design and applications Of vital interest to researchers engineers scientists programmers systems analysts managers and other interested in the design and application of parallel distributed processors and processing   *Proceedings of the ... Annual ACM Symposium on Principles of Distributed Computing* ,2006   **Proceedings of the ...ACM Symposium on Theory of Computing** ,1985   Rewriting Techniques and Applications ,1991   Proceedings of the Seventeenth Annual ACM Symposium on Principles of Distributed Computing, Puerto Vallarta, México, June 28-July 2, 1998 ,1998   *Parallel and Distributed Processing and Applications* ,2005

Lateral Stability Analysis for X-29A Drop Model Using System Identification Methodology David L. Raney,1989
Proceedings of the Second International Conference on Massively Parallel Computing Systems ,1996
Storage and Retrieval for Still Image and Video Databases ,1999   **International Aerospace Abstracts** ,1999
Methodologies for Intelligent Systems, ... ,1987   **Japanese Technical Abstracts** ,1986

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