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10ME761

Seventh Semester B.E. Degree Examination, Dec.2014/Jan.2015

Experimental Stress Analysis

Time: 3 hrs.

Max. Marks: 100

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

PART - A

1. a. Define gauge factor. Derive an expression for it. (10 Marks)
b. Explain temperature compensation of strain gauges. Also explain the types of compensating gauges. (10 Marks)
2. a. Define a strain rosette. Mention the different types of strain rosette configurations with neat sketches. (06 Marks)
b. A delta rosette yields the following strain indications $\epsilon_1 = -845 \mu\text{m/m}$, $\epsilon_2 = 1220 \mu\text{m/m}$ and $\epsilon_3 = 710 \mu\text{m/m}$. Calculate the maximum principal strain direction, the principal stresses and the maximum shear stresses. Take $E = 200 \text{ GPa}$, $\nu = 0.285$. (14 Marks)
3. a. Define stress optic law. And derive it in two dimensional photoelasticity. (10 Marks)
b. Explain the calibration method (i) using tension method, (ii) using the circular disc specimen. (10 Marks)
4. a. Explain the shear difference method for the separation of principal stresses. (10 Marks)
b. What are the properties of an ideal photoelastic material? Discuss a few important photoelastic materials. (10 Marks)

PART - B

5. a. Explain stress freezing technique in 3-D photoelasticity. (10 Marks)
b. Describe the set up of a scattered light polariscope. (10 Marks)
6. a. What is birefringence? Mention the assumptions made. Explain how stresses and strains can be measured using birefringent coating. (10 Marks)
b. Explain with a neat sketch the principle and operation of a reflection polariscope. (10 Marks)
7. a. What is brittle coating technique? Explain bad relaxation technique of coating. Also mention its uses. (10 Marks)
b. Explain crack-detection techniques in brittle coating method. (10 Marks)
8. a. What are the applications of moiré method of strain analysis? (04 Marks)
b. Explain strain analysis by the displacement approach. (06 Marks)
c. Explain the geometric approach of moiré fringe strain analysis. (10 Marks)

Mechanical 7th Sem Question Papers

Anup Goel



Mechanical 7th Sem Question Papers:

Mechanical System Design Anup Goel, 2020-12-01 In machine design or design of machine elements we study about the design of individual components of machinery like shafts keys belts bolts gears etc In mechanical system design we means that how these components are going to work in collaboration reliability of the system when different components work together This book includes design of conveyors for material handling systems belt conveyors design of multispeed gearbox for machine tools design of I C engine components and optimum design It also includes the design of pressure vessels used in mechanical systems This book provides a systematic exposition of the basic concepts and techniques involved in design of mechanical systems Our hope is that this book through its careful explanations of concepts practical examples and figures bridges the gap between knowledge and proper application of that knowledge Sample Question Papers for ISC Science Stream Class 12 Semester I Exam 2021 Oswal - Gurukul, 2021-10-04 Prepare Well Perform Outstandingly with Oswal Gurukul Science Stream Sample Question Papers for ISC 12th Class Semester 1 Examination 2021 This Practice Book includes Science Subject test papers combined together such as English I II Mathematics Computer Science Physics Chemistry Biology Physical Education How can you benefit from Oswal Gurukul ISC Science Sample Papers for 12th Class Our Sample Question Handbook Includes subject wise question papers strictly based on the Modified Assessment Plan issued by the board on 6th August 2021 1 Strictly based on the Reduced Syllabus prescribed by council in July 2 Entire Syllabus covered for Semester 1 Exam 3 Fully Solved Questions based on New Specimen Question Paper Pattern given in Aug Sept 2021 4 All Science Stream Subjects Combined in One Book 5 Well explained Expert Answers for Better Understanding 6 Focused on Topics most likely to be asked in Boards Sample Question Papers for ISC Humanities Stream : Class 12 Semester I Exam 2021 Gurukul, 2021-10-12 Prepare Well Perform Outstandingly with Oswal Gurukul Humanities Stream Sample Question Papers for ISC 12th Class Semester 1 Examination 2021 This Practice Book includes Science Subject test papers combined together such as English I II Economics Physical Education History Sociology Geography Political Science and Psychology How can you benefit from Oswal Gurukul ISC Humanities Sample Papers for 12th Class Our Sample Question Handbook Includes subject wise question papers strictly based on the Modified Assessment Plan issued by the board on 6th August 2021 1 Strictly based on the Reduced Syllabus prescribed by council in July 2 Entire Syllabus covered for Semester 1 Exam 3 Fully Solved Questions based on New Specimen Question Paper Pattern given in Aug Sept 2021 4 All Commerce Stream Subjects Combined in One Book 5 Well explained Expert Answers for Better Understanding 6 Focused on Topics most likely to be asked in Boards *Systems in Mechanical Engineering* Anup Goel, 2021-01-01 Mechanical engineering as its name suggests deals with the mechanics of operation of mechanical systems This is the branch of engineering which includes design manufacturing analysis and maintenance of mechanical systems It combines engineering physics and mathematics principles with material science to design analyse manufacture and maintain mechanical systems

This book covers the field requires an understanding of core areas including thermodynamics material science manufacturing energy conversion systems power transmission systems and mechanisms This book includes basic knowledge of various mechanical systems used in day to day life My hope is that this book through its careful explanations of concepts practical examples and figures bridges the gap between knowledge and proper application of that knowledge *Design of Machine Elements - I* Anup Goel,2021-01-01 The term design means to plan for the construction of an object or the formulation of a plan for the satisfaction of need The term machine design deals with the design of machines their mechanisms and elements Design of Machine Element DME may be defined as the selection of material and the dimensions for each geometrical parameter so that the element satisfies its function and undesirable effects are kept within the allowable limit Machine elements are basic mechanical parts and features used as the building blocks of most machines This book provides a systematic exposition of the basic concepts and techniques involved in design of machine elements This book covers design of important mechanical elements such as shafts couplings springs and power screws under static load The design of welded and threaded joints and the members subjected to fluctuating loads is also included in this book Our hope is that this book through its careful explanations of concepts practical examples and figures bridges the gap between knowledge and proper application of that knowledge Elements Of Civil & Mechanical Engineeri L S Jayagopal, This book presents the fundamentals of Civil and Mechanical Engineering Designed as per the revised and new core engineering paper of Basic Engineering I this book is written in a style suitable for students just out of school **Turbo Machines** Anup Goel,2021-01-01 Turbo machines in mechanical engineering describes machines that transfer energy between rotor and fluid including turbines pumps and compressors While turbine transfers energy from fluid to rotor and compressor and a pump transfers energy from rotor to fluid Turbo machine is a power or a head generating machine which employs the dynamic action of a rotating element the rotor the action of the rotor changes the energy level of the continuously flowing fluid through the machine The majority of turbo machines run at comparatively higher speeds without any mechanical problems and high volumetric efficiency Turbo machines can be categorised on the basis of the nature of flow path through the passage of the rotor The same fundamentals are applicable to all turbo machines certainly there are significant differences between these machines In this book SI unit system is followed Our hope is that this book through its careful explanations of concepts practical examples and figures bridges the gap between knowledge and proper application of that knowledge

Principles of Mechanical Engineering (MDU) Sadhu Singh,2010 For the students of B E B Tech of Maharshi Dayanand University MDU Rohtak and Kurukshetra University Kurukshetra The book contains a large no of solved and unsolved problems This has been supplemented with Multichoice questions review questions true and false and fill in the blanks type of questions *Educart ICSE Class 10 One-shot Question Bank 2026 Physics (strictly for 2025-26 boards)* Sir Tarun Rupani,2025-07-12 Concept clarity exam level practice for ICSE Physics Class 10 This One shot Question Bank by Sir

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Material Science and Metallurgy Anup Goel,2021-01-01 A material is that from which anything can be made It includes wide range of metals and non metals that are used to form finished product The knowledge of materials and their properties is of great significance for a design engineer Material science is the study of the structure properties relationship of engineering materials such as ferrous non ferrous materials polymers ceramics composites and some advanced materials Metallurgy is the study of metals related to their extraction from ore refining production of alloys along with their properties The study of material science and metallurgy links the science of metals to the industries Also this helps in completing demands from new applications and severe service requirements

SSC Junior Engineers Mechanical Engineering Paper 1 2019 Arihant Experts,2019-06-04 Staff Selection Commission SSC is one of the prestigious organisations of Government of India known widely for recruiting potential candidates for various posts at various subordinate offices SSC Junior Engineer CPWD MES Mechanical Engineering for Paper I Computer based test CBT 2019 is a revised edition to provide students an updated version of study material following the latest examination pattern for this examination It is divided into three parts covering General Intelligence and Reasoning General Awareness and Mechanical along with their chapters equipped with complete theories Each chapter consists of sufficient number of MCQs for harnessing the conceptual clarity It has 3 solved papers of 2015 2017 and 2018 with detailed solutions It also provides 3 mock tests for self practice Enclosed with such effective set of study material it is hoped that it will ensure success in this upcoming examination TOC Solved Paper 2018 Solved Paper 2017 Solved Paper 2015 PART A General Intelligence Reasoning PART B General Awareness PART C Mechanical 3 Mock Test

Dynamics of Machinery Anup Goel,2021-01-01 Dynamics of machinery is concerned with the motion of the parts of the machines and the forces acting on these parts Dynamic loads and undesired oscillations increase with higher speed of machines At the same time industrial safety standards require better vibration isolation This book covers balancing of

mechanisms torsion vibrations vibration isolation and the dynamic behaviour of drives and machine frames as complex systems Typical dynamic effects such as the gyroscopic effect damping and absorption shocks are explained using practical examples The substantial benefit of this dynamics of machinery lies in the combination of theory and practical applications and the numerous descriptive examples based on practical data Our hope is that this book through its careful explanations of concepts practical examples and figures bridges the gap between knowledge and proper application of that knowledge

Operation Research Anup Goel,Ruchi Agarwal,2021-01-01 Operations research is the fast developing branch of science which deals with the most of the engineering activities It consist of many models which are used to obtain the optimum solution for different activities Operations research is a procedure which is executed iteratively for comparing various solutions till the optimum or satisfactory solution is obtained An important aspect of the optimal design process is the formulation of the problem in a mathematical format which is acceptable to an algorithm and thus find out the optimal solution These techniques are extensively used in those engineering design problem where the emphasis is on maximising or minimising a certain goal This book is the introduction to the different techniques in operations research The subject does not require a high level of mathematical knowledge Each chapter of the book have examples from variety of fields Our hope is that this book through its careful explanations of concepts practical examples and techniques bridges the gap between knowledge and proper application of that knowledge

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provides tool to enable production of manufacturing goods efficiently The subject gives idea to maximise product quality and to minimise the production cost It also gives information about the different surface finishing techniques My hope is that this book through its careful explanations of concepts practical examples and figures bridges the gap between knowledge and proper application of that knowledge

Metrology & Quality Control Anup Goel,2020-12-01 Metrology is the scientific study of measurement It establishes a common understanding of units crucial in linking human activities The knowledge of this subject is essential for all persons irrespective of the branch of engineering For engineering purposes the study is restricted to the measurement of lengths angles and the quantities which are expressed in linear and angular terms This book gives information about various instruments used for linear as well as angular measurements and corresponding errors This book also includes concepts of quality quality control different tools and techniques for quality control total quality management and various latest methods of quality control Our hope is that this book through its careful explanations of concepts examples and figures bridges the gap between knowledge and proper application of that knowledge

Elements of Mechanical Engineering(GTU) Sadhu Singh,2010 The book strictly complies with the new syllabus of Gujrat Technological University Ahmedabad for B E First year of all braches of Engineering The subject matter is presented in a graded stepwise easytofollow style Each chapter includes MulplesChoice Questions Review Questions and Exercises for easy recapitulation

Design of Machine Elements - II Anup Goel,2021-01-01 The term design means to plan for the construction of an object or the formulation of a plan for the satisfaction of need The term machine design deals with the design of machines their mechanisms and elements Design of Machine Element DME may be defined as the selection of material and the dimensions for each geometrical parameter so that the element satisfies its function and undesirable effects are kept within the allowable limit Machine elements are basic mechanical parts and features used as the building blocks of most machines This book provides a systematic exposition of the basic concepts and techniques involved in design of machine elements This book covers design of important elements such as gears bearings and belt drives Our hope is that this book through its careful explanations of concepts practical examples and figures bridges the gap between knowledge and proper application of that knowledge

Numerical Methods & Optimization Anup Goel,2021-01-01 Numerical method is a mathematical tool designed to solve numerical problems The implementation of a numerical method with an appropriate convergence check in a programming language is called a numerical algorithm Numerical analysis is the study of algorithms that use numerical approximation for the problems of mathematical analysis Numerical analysis naturally finds application in all fields of engineering and the physical sciences Numerical methods are used to approach the solution of the problem and the use of computer improves the accuracy of the solution and working speed Optimization is the process of finding the conditions that give the maximum or minimum value of a function For optimization purpose linear programming technique helps the management in decision making process This technique is used in almost every functional area of business This

book include flowcharts and programs for various numerical methods by using MATLAB language My hope is that this book through its careful explanations of concepts practical examples and figures bridges the gap between knowledge and proper application of that knowledge

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web the present invention relates to a governor for a fuel injection pump for a diesel internal combustion engine it has been

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web a diesel engine system 1 has a fuel injection pump 3 for supplying fuel to a multi cylinder diesel engine 2 and the fuel from the fuel injection pump 3 is supplied to the cylinders of the diesel engine 2 through respective injection pipes

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