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In this session, Marut Tiwari (MTech Topper (IIT Kgp), author, 7 years of teaching experience for GATE/ESE) will discuss the previous year questions of GATE from subject Engineering Mechanics.

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This book provides a leading platform for GATE aspirants to practice and hone their skills required to gain the best score in the examination. It includes more than 25 previous years' GATE questions segregated topic-wise supported by detailed step-wise solutions for all. Besides, the book presents the exam analysis at the beginning of every unit which will enable a better understanding of the subject. The questions in the chapters are divided according to their marks, hence emphasizing on their importance. This, in turn, will help the students to get an idea about the pattern and weightage of these questions that appeared in the GATE exam every year. Features: □ Includes around 32 years' GATE questions arranged chapter-wise □ Detailed solutions for better understanding □ Includes the latest GATE solved question papers with detailed □ analysis □ Comprehensively revised and updated Table of Contents: Reviewers preface Syllabus: Mechanical Engineering Important Tips for GATE Preparation Unit 1: Engineering Mechanics Chapter1: Engineering Machines Unit 2: Strength of Materials Chapter1: Simple Stresses Chapter2: Complex Stresses Chapter3: SFD and BMD Chapter4: Centroids and Moment of Inertia Chapter5: Pure Bending Chapter6: Shear Stress in Beams Chapter7: Springs Chapter8: Torsion Chapter9: Slopes and Deflections Chapter10: Thin Cylinders Chapter11: Column and Struts Chapter12: Propped and Fixed Beams Chapter13: Strain Energy Unit 3: Machine Design Chapter1: Static Loading Chapter2: Fatigue Chapter3: Bolted, Riveted and Welded Joints Chapter4: Gears Chapter5: Rolling Contact Bearings Chapter6: Sliding Contact Bearings Chapter7: Brake Chapter8: Clutches Unit 4: Theory of Machines Chapter1: Analysis of of Planner Mechanism Chapter2: Dynamic Analysis of Single Slider-crank Mechanism Chapter3: Gear and gear Trains Chapter4: Fly Wheels Chapter5: Mechanical Vibrations Unit 5: Fluid Mechanics and Turbo Machinery Chapter1: Property of Fluids Chapter2: Fluid Statics Chapter3: Fluid Kinematics Chapter4: Fluid Dynamics Chapter5: Laminar Flow Chapter6: Turbulent Flow Chapter7: Boundary Layer Chapter8: Turbo Machinery Unit 6: Heat Transfer Chapter1: Conduction Chapter2: FINS and THC Chapter3: Convection Chapter4: Radiation Chapter5: Heat Exchangers Unit 7: Thermodynamics Chapter1: Zeroth Law and Basic Concepts Chapter2: Work and Heat Chapter3: First Law of Thermodynamics Chapter4: Second Law of Thermodynamics Chapter5: Entropy Chapter6: Property of Pure Substances Chapter7: Availability Chapter8: Air Cycles Chapter9: Psychrometry Chapter10: Rankine Cycle Chapter11: Gas Turbines Chapter12: Refrigeration Chapter13: Internal Combustion Engines

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Insights and Innovations in Structural Engineering, Mechanics and Computation comprises 360 papers that were presented at the Sixth International Conference on Structural Engineering, Mechanics and Computation (SEMC 2016, Cape Town, South Africa, 5-7 September 2016). The papers reflect the broad scope of the SEMC conferences, and cover a wide range of engineering structures (buildings, bridges, towers, roofs, foundations, offshore structures, tunnels, dams, vessels, vehicles and machinery) and engineering materials (steel, aluminium, concrete, masonry, timber, glass, polymers, composites, laminates, smart materials). Some contributions present the latest insights and new understanding on (i) the mechanics of structures and systems (dynamics, vibration, seismic response, instability, buckling, soil-structure interaction), and (ii) the mechanics of materials and fluids (elasticity, plasticity, fluid-structure interaction, flow through porous media, biomechanics, fracture, fatigue, bond, creep, shrinkage). Other contributions report on (iii) recent advances in computational modelling and testing (numerical simulations, finite-element modeling, experimental testing), and (iv) developments and innovations in structural engineering (planning, analysis, design, construction, assembly, maintenance, repair and retrofitting of structures). Insights and Innovations in Structural Engineering, Mechanics and Computation is particularly of interest to civil, structural, mechanical, marine and aerospace engineers. Researchers, developers, practitioners and academics in these disciplines will find the content useful. Short versions of the papers, intended to be concise but self-contained summaries of the full papers, are collected in the book, while the full versions of the papers are on the accompanying CD.

Inverse problems can be found in many topics of engineering mechanics. There are many successful applications in the fields of inverse problems (non-destructive testing and characterization of material properties by ultrasonic or X-ray techniques, thermography, etc.). Generally speaking, the inverse problems are concerned with the determination of the input and the characteristics of a mechanical system from some of the output from the system. Mathematically, such problems are ill-posed and have to be overcome through development of new computational schemes, regularization techniques, objective functionals, and experimental procedures. Seventy-two papers were presented at the International Symposium on Inverse Problems in Mechanics (ISIP '98) held in March of 1998 in Nagano, where recent developments in the inverse problems in engineering mechanics and related topics were discussed. The main themes were: mathematical and computational aspects of the inverse problems, parameter or system identification, shape determination, sensitivity analysis, optimization, material property characterization, ultrasonic non-destructive testing, elastodynamic inverse problems, thermal inverse problems, and other engineering applications.

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Explains the fundamental concepts and principles underlying the subject, illustrates the application of numerical methods to solve engineering problems with mathematical models, and introduces students to the use of computer applications to solve problems. A continuous step-by-step build up of the subject makes the book very student-friendly. All topics and sequentially coherent subtopics are carefully organized and explained distinctly within each chapter. An abundance of solved examples is provided to illustrate all phases of the topic under consideration. All chapters include several spreadsheet problems for modeling of physical phenomena, which enable the student to obtain graphical representations of physical quantities and perform numerical analysis of problems without recourse to a high-level computer language. Adequately equipped with numerous solved problems and exercises, this book provides sufficient material for a two-semester course. The book is essentially designed for all engineering students. It would also serve as a ready reference for practicing engineers and for those preparing for competitive examinations. It includes previous years' question papers and their solutions.

This book of "GATE-2022 : CIVIL ENGINEERING" consists of previous year questions of GATE from 1986 to 2021, containing 36 years paper set. The questions are segregated in topic-wise format encompassing all subjects, such as Engineering Mechanics & Strength of Materials, Structural Analysis, RCC Structures & Prestressed Concrete, Steel Structures, Construction Planning & Management, Geotechnical Engineering, Surveying, Fluid Mechanics, Environmental Engineering, Hydrology and Irrigation. The book has questions in decreasing year-wise pattern which become it an ideal book for Civil Engineering aspirants.

Inverse Problems are found in many areas of engineering mechanics and there are many successful applications e.g. in non-destructive testing and characterization of material properties by ultrasonic or X-ray techniques, thermography, etc. Generally speaking, inverse problems are concerned with the determination of the input and the characteristics of a system, given certain aspects of its output. Mathematically, such problems are ill-posed and have to be overcome through development of new computational schemes, regularization techniques, objective functionals, and experimental procedures. This volume contains a selection of peer-reviewed papers presented at the International Symposium on Inverse Problems in Engineering Mechanics (ISIP2001), held in February of 2001 in Nagano, Japan, where recent development in inverse problems in engineering mechanics and related topics were discussed. The following general areas in inverse problems in engineering mechanics were the subjects of the ISIP2001: mathematical and computational aspects of inverse problems, parameter or system identification, shape determination, sensitivity analysis, optimization, material property characterization, ultrasonic non-destructive testing, elastodynamic inverse problems, thermal inverse problems, and other engineering applications. These papers can provide a state-of-the-art review of the research on inverse problems in engineering mechanics.

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