

Fourth Semester B.E. Degree Examination, June 2012
Fluid Mechanics

Time: 3 hrs.

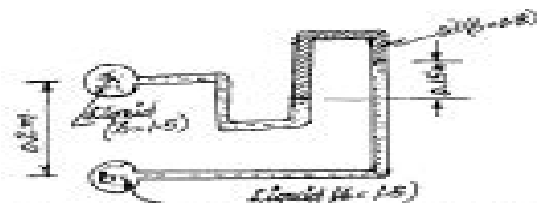
Max. Marks:100

- Notes: 1. Answer any FIVE full questions, selecting atleast TWO questions from each part.*
2. Missing data may be assumed suitably with proper reasoning.

PART - A

1.
 - a. Distinguish between the following :
 - i) Mass density and weight density
 - ii) Dynamic viscosity and kinematic viscosity.
 - iii) Ideal fluid and real fluid. (06 Marks)
 - b. Prove that an ideal gas undergoing an adiabatic process, the bulk modulus of elasticity (K) is γ time the pressure (P) where $\gamma = C_p/C_v$. (04 Marks)
 - c. Derive an expression for surface tension on a liquid jet. (04 Marks)
 - d. An oil film of thickness 1.5mm is used for lubrication between a square plate of size $0.9\text{m} \times 0.9\text{m}$ and an inclined plane having an angle of inclination 20° with horizontal. The mass of the square plate is 40 kg and it slides down the plane with a uniform velocity of 0.2m/s. Find the dynamic viscosity of the oil. (06 Marks)
2.
 - a. State and prove hydrostatic law. (06 Marks)
 - b. Find the pressure difference between A and B in kPa in meters of water for the fig.Q2(b). (06 Marks)

Fig.Q2(b)



- c. A circular plate of 4.5m diameter is submerged in water with its greatest and least depths below the water surface being 3m and 1.5m respectively. Find i) the total pressure on the front face of the plate and ii) the position of centre of pressure. (08 Marks)
3.
 - a. A hollow wooden cylinder ($s = 0.6$) has an outer diameter of 0.6m and an inner diameter of 0.3m. It is required to float in an oil of sp.gr. 0.9. Calculate i) the maximum length (height) of the cylinder so that it shall be stable when floating with its axis vertical ii) the depth to which it will sink. (08 Marks)
 - b. Distinguish between : i) Steady flow and uniform flow ii) Rotational flow and irrotational flow. (04 Marks)
 - c. In a two - dimensional flow field for an incompressible fluid, the velocity components are :
 $u = \frac{x^2}{3} + 2x - x^2y$ and $v = xy^2 - 2y - \frac{x}{y}$
 i) Check for the continuity ii) Find an expression for the stream function. (08 Marks)

Fluid Mechanics 2012 Question Paper

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Fluid Mechanics 2012 Question Paper:

Fluid Mechanics and Hydraulic Machines Shivkumar Raghuwanshi, 2022-03-04 This book is designed to serve as a guide for the aspirants for Mechanical Engineering who are preparing for different exams like State Engineering service Exams GATE ESE RSEB AE JE SSC JE RRB JE State AE JE UPPSC AE and PSUs like NTPC NHPC BHEL and etc Complete care is taken in the preparation of solutions to the theoretical and numerical questions The unique feature in this book is that the SSC JE Mechanical Engineering Detailed colored solutions of Previous years papers with extra information which covers every topic and subtopics within topic that are important on exams points of views Each question is explained very clearly with the help of 3D diagrams The previous years from 2010 to 2019 questions decoded in a Question Answer format in this book so that the aspirant can integrate these questions along in their regular preparation If you completely read and understand this book you may succeed in the Mechanical engineering exam This book will be a single tool for aspirants to perform well in the concerned examinations ESE GATE ISRO SSC JE Mechanical Engineering Previous Years Papers Solutions Multi Coloured eBooks You will need not be to buy any standard books and postal study material from any Coaching institute Download app from google play store EVERYTHING IS FREE 15 DAYS FOR YOU https://play.google.com/store/apps/details?id=com.xcrino.pustakhl.en_US <https://www.usshowallreviews.com> Go to our website <https://www.sauspicious.in>

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Fluid Mechanics Anup Goel, 2021-01-01 Fluid Mechanics is the branch of physics concerned with the mechanics of fluids and forces acting on them It includes unlimited practical applications ranging from microscopic biological systems to automobiles airplanes and spacecraft propulsion Fluid Mechanics is the study of fluid behavior at rest and in motion It also gives information about devices used to measure flow rate pressure and velocity of fluid The book uses plain Lucid language to explain fundamentals of this subject The book provides logical method of explaining various complicated concepts and stepwise methods to explain the important topics Each chapter is well supported with necessary illustrations practical examples and solved problems All the chapters in the book are arranged in a proper sequence that permits each

topic to build upon earlier studies All care has been taken to make readers comfortable in understanding the basic concepts of the subject

Fluid Machinery (Hydraulic Machines) Sadhu Singh, This is a text book for B E B Tech students of all Indian Universities and Institutions The book contains fifteen chapters The book contains a large number of solved and unsolved problems The special features of the book are summery Review Question Multi choice Questions and end of chapter numerical problems

Mechanical Engineering Solved Papers GATE 2022 Lalit Jain, 2021-06-21 1 The book is prepared for the preparation for the GATE entrance 2 The practice Package deals with Mechanical Engineering 3 Entire syllabus is divided into chapters 4 Solved Papers are given from 2021 to 2000 understand the pattern and build concept 5 3 Mock tests are given for Self practice 6 Extensive coverage of Mathematics and General Aptitude are given 7 Questions in the chapters are divided according to marks requirements 1 marks and 2 marks 8 This book uses well detailed and authentic answers Get the complete assistance with GATE Chapterwise Solved Paper Series that has been developed for aspirants who are going to appear for the upcoming GATE Entrances The Book Chapterwise Previous Years Solved Papers 2021 2000 GATE Mechanical Engineering has been prepared under the great observation that help aspirants in cracking the GATE Exams As the name of the book suggests it covers detailed solutions of every question in a Chapterwise manner Each chapter provides a detailed analysis of previous years exam pattern Chapterwise Solutions are given Engineering Mathematics and General Aptitude 3 Mock tests are given for Self practice To get well versed with the exam pattern Level of questions asked conceptual clarity and greater focus on the preparation This book proves to be a must have resource in the solving and practicing previous years GATE Papers

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Computational and Experimental Fluid Mechanics with Applications to Physics, Engineering and the Environment Leonardo Di G. Sigalotti,Jaime Klapp,Eloy Sira,2014-01-11 The book presents a collection of selected papers from the I Workshop of the Venezuelan Society of Fluid Mechanics held on Margarita Island Venezuela from November 4 to 9 2012 Written by experts in their respective fields the contributions are organized into five parts Part I Invited Lectures consisting of full length technical papers on both computational and experimental fluid mechanics covering a wide range of topics from drops to multiphase and granular flows to astrophysical flows Part II Drops Particles and Waves Part III Multiphase and Multicomponent Flows Part IV Atmospheric and Granular Flows and Part V Turbulent and Astrophysical Flows The book is intended for upper level undergraduate and graduate students as well as for physicists chemists and engineers teaching and working in the field of fluid mechanics and its applications The contributions are the result of recent advances in theoretical and experimental research in fluid mechanics encompassing both fundamentals as well as applications to fluid engineering design including pipelines turbines flow separators hydraulic systems and biological fluid elements and to granular environmental and astrophysical flows

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Topical Issues of Rational Use of Natural Resources Vladimir Litvinenko, 2018-10-16. Topical Issues of Rational Use of Natural Resources contains the contributions presented at International Forum Contest of Young Researchers 2018, St. Petersburg Mining University, Russia, 18-20 April 2018. The Forum Contest is an excellent opportunity for young researchers to present their work to the scientific community involved in the extraction and processing of natural resources. The topics of the book include: Prospecting and exploration of mineral deposits; Development of solid minerals deposits and safety of mining operations; Development of oil and gas fields and transportation of crude hydrocarbons; Modern technologies of construction work applied in the mineral complex; Metallurgy; Physical and chemical technologies of hydrocarbons treatment; Equipment transport service and energy efficiency of mining enterprises; Economic tools of innovative development; Environmental protection; Geo-information systems and nanotechnologies. Topical Issues of Rational Use of Natural Resources collects the best reports presented at the Forum Contest and will be of interest to academics and professionals involved in the extraction and processing of natural resources.

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