

PHYSICS

Fluid Mechanics

QUESTIONS BANK

1. A bucket contains water filled upto a height = 15 cm. The bucket is tied to a rope which is passed over a frictionless light pulley and the other end of the rope is tied to a weight of mass which is half of that of the (bucket + water). The water pressure above atmosphere pressure at the bottom is

(A) 0.5 kPa (B) 1 kPa
(C) 5 kPa (D) None

Solution :

$$\text{Pressure} = h \rho g_{\text{av}}$$

$$a = g/3$$

$$g_{\text{av}} = g - a = g - g/3 = 2g/3$$

$$\Rightarrow P = \frac{0.15 \times 1000 \times 2 \times 10}{3}$$

$$P = 1 \text{ kPa}$$

Hence the answer is (B).

2. Some liquid is filled in a cylindrical vessel of radius R. Let F_1 be the force applied by the liquid on the bottom of the cylinder. Now the same liquid is poured into a vessel of uniform square cross-section of side R. Let F_2 be the force applied by the liquid on the bottom of this new vessel. Then :

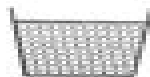
(A) $F = \pi F_2$ (B) $F_1 = \frac{F_2}{\pi}$
(C) $F_1 = \sqrt{\pi} F_2$ (D) $F_1 = F_2$

Solution :

Force is same pressure is different.

Hence the answer is (D).

3. A liquid of mass 1 kg is filled in a flask as shown in figure. The force exerted by the flask on the liquid is ($g = 10 \text{ m/s}^2$) [Neglect atmospheric pressure]



(A) 10 N (B) greater than 10 N
(C) less than 10 N (D) zero

Solution :

$$F = mg$$

$$F = 10 \text{ N}$$

Hence the answer is (A).

4. A U-tube having horizontal arm of length 20 cm, has uniform cross-sectional area = 1 cm^2 . It is filled with water of volume 60 cc. What volume of a liquid of density 4 g/cc should be poured from one side into the U-tube so that no water is left in the horizontal arm of the tube?

(A) 60 cc (B) 45 cc
(C) 50 cc (D) 35 cc

Solution :



$$60 \rho_w g = h \rho_w g$$

$$\Rightarrow 60 \times 1 \times g = h \times 4 \Rightarrow h = 15 \text{ cm}$$



$$\text{So, volume} = Ah$$

$$= 1 \times 35 = 35 \text{ cm}^3$$

Hence the answer is (D).

5. An open-ended U-tube of uniform cross-sectional area contains water (density $1.0 \text{ gram/centimeter}^3$) standing initially 20 centimeters from the bottom in each arm. An immiscible liquid of density $4.0 \text{ grams/centimeter}^3$ is added to one arm until a layer 5 centimeters high forms, as shown in the figure above. What is the ratio h_2/h_1 of the heights of the liquid in the two arms?

Fluid Flow Kinematics Questions And Answers

K L Kumar



Fluid Flow Kinematics Questions And Answers:

Fluid Mechanics Through Problems R. J. Garde, 2006 This Is An Outcome Of Authors Over Thirty Years Of Teaching Fluid Mechanics To Undergraduate And Postgraduate Students The Book Is Written With The Purpose That Through This Book Student Should Appreciate The Strength And Limitations Of The Theory And Also Its Potential For Application In Solving A Variety Of Engineering Problems Of Practical Importance It Makes Available To The Students Appearing For Diploma And Undergraduate Courses In Civil Chemical And Mechanical Engineering A Book Which Briefly Introduces The Necessary Theory Followed By A Set Of Descriptive Objective Questions In Seventeen Chapters The Book Covers The Broad Areas Of Fluid Properties Kinematics Dynamics Dimensional Analysis Laminar Flow Boundary Layer Theory Turbulent Flow Forces On Immersed Bodies Open Channel Flow Compressible And Unsteady Flows And Pumps And Turbines

Fundamentals of Kinematics and Dynamics of Machines and Mechanisms Oleg Vinogradov, 2000-07-25 The study of the kinematics and dynamics of machines lies at the very core of a mechanical engineering background Although tremendous advances have been made in the computational and design tools now available little has changed in the way the subject is presented both in the classroom and in professional references Fundamentals of Kinematics and Dynamics of Machines and Mechanisms brings the subject alive and current The author s careful integration of Mathematica software gives readers a chance to perform symbolic analysis to plot the results and most importantly to animate the motion They get to play with the mechanism parameters and immediately see their effects The downloadable resources contain Mathematica based programs for suggested design projects As useful as Mathematica is however a tool should not interfere with but enhance one s grasp of the concepts and the development of analytical skills The author ensures this with his emphasis on the understanding and application of basic theoretical principles unified approach to the analysis of planar mechanisms and introduction to vibrations and rotordynamics

Engineering Fluid Mechanics K L Kumar, 2008 It is a long way from the first edition in 1976 to the present sixth edition in 1995 This edition is dedicated to the memory of Prof S P Luthra Once Head Applied Mechanics Director IIT Delhi who wrote the foreword to its first edition So many faculty members and students from different parts of the country and from abroad have accepted the text and contributed to its development The book has been improved and updated with every edition

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Worlds of Flow Olivier Darrigol, 2005-09 This book provides the first fully fledged history of hydrodynamics including

lively accounts of the concrete problems of hydraulics navigation blood circulation meteorology and aeronautics that motivated the main conceptual innovations Richly illustrated technically competent and philosophically sensitive it should attract a broad audience and become a standard reference for any one interested in fluid mechanics **Class 11-12**

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Encyclopaedia of Mathematics (set) Michiel Hazewinkel, 1994-02-28 The Encyclopaedia of Mathematics is the most up to date authoritative and comprehensive English language work of reference in mathematics which exists today With over 7 000 articles from A integral to Zygmund Class of Functions supplemented with a wealth of complementary information and an index volume providing thorough cross referencing of entries of related interest the Encyclopaedia of Mathematics offers an immediate source of reference to mathematical definitions concepts explanations surveys examples terminology and methods The depth and breadth of content and the straightforward careful presentation of the information with the emphasis on accessibility makes the Encyclopaedia of Mathematics an immensely useful tool for all mathematicians and other scientists who use or are confronted by mathematics in their work The Encyclopaedia of Mathematics provides without doubt a reference source of mathematical knowledge which is unsurpassed in value and usefulness It can be highly recommended for use in libraries of universities research institutes colleges and even schools

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Walter Blum, Professor Dr. Hans-Peter Dürr, Dr. Helmut Rechenberg, 2013-11-11 Vii FOREWORD TO THE ENGLISH EDITION

The lectures which I gave at the University of Chicago ix It is an unusual pleasure to present Professor Heisen in the spring of 1929 afforded me the opportunity of re berg s Chicago lectures on The Physical Principles of viewing the fundamental principles of quantum theory the Quantum Theory to a wider audience than could Since the conclusive studies of Bohr in 1927 there have attend them when they were originally delivered Pro been no essential changes in these principles and many fessor Heisenberg s leading place in the development of new experiments have confirmed important consequences the new quantum mechanics is well recognized by those of the theory for example the Raman effect But even who have been following its growth It was in fact he who today the physicist more often has a kind of faith in the first saw clearly that in the older forms of quantum theory we were describing our spectra in terms of atomic mecha correctness of the new principles than a clear understa nisms regarding which we could gain no definite knowl ing of them For this reason the publication of these C cago lectures in the form of a small book seems justified edge anq who first found a way to interpret or at least describe spectroscopic phenomena without assuming Since the formal mathematical apparatus of the quan the existence of such atomic mechanisms

Applied Mechanics Reviews, 1974 **Geomechanics, Fluid Dynamics and Well Testing, Applied to Naturally Fractured Carbonate Reservoirs** Nelson Enrique Barros Galvis, 2018-05-02 This thesis presents an important step towards a deeper understanding of naturally fractured carbonate reservoirs NFCRs It demonstrates the various kinds of discontinuities using geological evidence mathematical kinematics model and computed tomography and uses this as a basis for proposing a new classification for NFCRs Additionally this study takes advantage of rock mechanics theory to illustrate how natural fractures can collapse due to fluid flow and pressure changes in the fractured media The explanations and mathematical modeling developed in this dissertation can be used as diagnostic tools to predict fluid velocity fluid flow tectonic fracture collapse pressure behavior during reservoir depleting considering stress sensitive and non stress sensitive with nonlinear terms in the diffusivity equation applied to NFCRs Furthermore the book presents the description of real reservoirs with their field data as the principal goal in the mathematical description of the realistic phenomenology of NFCRs

A Brief Introduction to Fluid Mechanics Donald F. Young, Bruce R. Munson, Theodore H. Okiishi, Wade W. Huebsch, 2010-11-23 A Brief Introduction to Fluid Mechanics 5th Edition is designed to cover the standard topics in a basic fluid mechanics course in a streamlined manner that meets the learning needs of today s student better than the dense encyclopedic manner of traditional texts This approach helps students connect the math and theory to the physical world and practical applications and apply these connections to solving problems The text lucidly presents basic analysis techniques and addresses practical concerns and applications such as pipe flow open channel flow flow measurement and drag and lift It offers a strong visual approach with photos illustrations and videos included in the text examples and homework problems to emphasize the practical application of fluid mechanics principles

Engineering

Thermodynamics and Fluid Mechanics (For MAKAUT), 3rd Edition Ghosh B.B./ Chakrabarti Satyajit/ Ghosh Samir & Roy, Prokash Chandra, 2013 Books in this series have been specially designed to meet the requirements of a large spectrum of engineering students of WBUT those who find learning the concepts difficult and want to study through solved examples and those who wish to study in the traditional way Modern day engineers constantly encounter applications of thermodynamics and fluid mechanics while working with engineering designs and structures converting the power of heat and fluid into mechanical work from early steam engines to hydroelectricity and supersonic jets Equipping budding engineers with state of the art technology Engineering Thermodynamics and Fluid Mechanics provides an in depth study of the two disciplines Key Features1 Summary at the end of each chapter for quick recapitulation2 Large number of MCQs review questions and numerical problem sets for self assessment3 Five model test papers for practice4 Solution to past ten years university papers

Fluid Mechanics of Flow Metering Wolfgang Merzkirch, 2005-12-05 Flow meters measure the volumetric flow rate in a pipeline Most meters are based on deriving a signal from the fluid flow and calibrating the signal against the volumetric flow rate The calibration is done in fully developed flow and the same state of flow must exist at the meter's position when it is in practical use Because the field of flow metering has been neglected by fluid mechanicians for a long time this book addresses two major fluid mechanical problems in flow metering the analysis of signal generation in turbulent pipe flow which explains the function of the meter beyond a simple calibration and the possible use of a meter in non developed flows These problems are investigated with reference to and examples from a variety of meters e g ultrasound cross correlation meters vortex meters and turbine meters Studying these problems requires consideration of specific phenomena in turbulent non developed pipe flow as caused by installations and finding special solutions with signal processing both of which are included in the book

Heat Transfer and Fluid Flow James M. Jacobs, 1958 A total of 2519 annotated references to the unclassified report literature is presented Subjects covered under heat transfer and fluid flow include radioinduced heating boiling boiler evaporators pump and heat exchanger design hydrodynamics coolants and their properties thermal and flow instrumentation high temperature materials thermal properties of materials and thermal insulation Subjects covered less completely include thermodynamics aerodynamics high temperature corrosion corrosion specific to heat transfer systems erosion mass transfer corrosion film formation and effects coolant processing and radioactivity radiation effects of heat transfer materials and pertinent data of thermonuclear processes Subject report number availability and author indexes are given

University of Michigan Official Publication University of Michigan, 1988 Each number is the catalogue of a specific school or college of the University

Vol 09: Rotational Motion: Adaptive Problems Book in Physics (with Detailed Solutions) for College & High School SATYAM SIR, 2021-11-15 Learn Rotational Motion which is divided into various sub topics Each topic has plenty of problems in an adaptive difficulty wise From basic to advanced level with gradual increment in the level of difficulty The set of problems on any topic almost covers all varieties of

physics problems related to the chapter Rotational Motion If you are preparing for IIT JEE Mains and Advanced or NEET or CBSE Exams this Physics eBook will really help you to master this chapter completely in all aspects It is a Collection of Adaptive Physics Problems in Rotational Motion for SAT Physics AP Physics 11 Grade Physics IIT JEE Mains and Advanced NEET Olympiad Level Book Series Volume 09 This Physics eBook will cover following Topics for Rotational Motion 1 Rotational Kinematics 2 Moment of Inertia Discrete bodies 3 Moment of Inertia Continuous bodies 4 Moment of Inertia Axis Theorems 5 Radius of Gyration 6 Torque 7 Equilibrium Problems 8 Angular Acceleration 9 Angular Momentum 10 Conservation of Angular Momentum 11 Angular Impulse 12 Rolling Motion In General 13 Pure Rolling 14 Impure Rolling 15 Conservation of Energy Momentum Ang Momentum 16 Collision Problems 17 Ins Axis of Rotation 18 Chapter Test The intention is to create this book to present physics as a most systematic approach to develop a good numerical solving skill About Author Satyam Sir has graduated from IIT Kharagpur in Civil Engineering and has been teaching Physics for JEE Mains and Advanced for more than 8 years He has mentored over ten thousand students and continues mentoring in regular classroom coaching The students from his class have made into IIT institutions including ranks in top 100 The main goal of this book is to enhance problem solving ability in students Sir is having hope that you would enjoy this journey of learning physics In case of query visit www.physicsfactor.com or WhatsApp to our customer care number 91 7618717227

Encyclopaedia of Mathematics Michiel Hazewinkel, 2013-12-01 This ENCYCLOPAEDIA OF MATHEMATICS aims to be a reference work for all parts of mathematics It is a translation with updates and editorial comments of the Soviet Mathematical Encyclopaedia published by Soviet Encyclopaedia Publishing House in five volumes in 1977 1985 The annotated translation consists of ten volumes including a special index volume There are three kinds of articles in this ENCYCLOPAEDIA First of all there are survey type articles dealing with the various main directions in mathematics where a rather fine subdivision has been used The main requirement for these articles has been that they should give a reasonably complete up to date account of the current state of affairs in these areas and that they should be maximally accessible On the whole these articles should be understandable to mathematics students in their first specialization years to graduates from other mathematical areas and depending on the specific subject to specialists in other domains of science engineers and teachers of mathematics These articles treat their material at a fairly general level and aim to give an idea of the kind of problems techniques and concepts involved in the area in question They also contain background and motivation rather than precise statements of precise theorems with detailed definitions and technical details on how to carry out proofs and constructions The second kind of article of medium length contains more detailed concrete problems results and techniques

Encyclopaedia of Mathematics M. Hazewinkel, 2013-11-11 **Advances in Spatio-Temporal Analysis** Xinming Tang, Yaolin Liu, Jixian Zhang, Wolfgang Kainz, 2007-08-23 Developments in Geographic Information Technology have raised the expectations of users A static map is no longer enough there is now demand for a dynamic representation Time is of great

importance when operating on real world geographical phenomena especially when these are dynamic Researchers in the field of Temporal Geographical Information Systems TGIS have been developing methods of incorporating time into geographical information systems Spatio temporal analysis embodies spatial modelling spatio temporal modelling and spatial reasoning and data mining Advances in Spatio Temporal Analysis contributes to the field of spatio temporal analysis presenting innovative ideas and examples that reflect current progress and achievements **Mechanics of Fluids** Uche Oteh,2008

Fluid Flow Kinematics Questions And Answers Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Fluid Flow Kinematics Questions And Answers**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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