

Physics

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(Chapter 9) (Mechanical Properties of Solids) (Exercises)

(Class 11)

Question 9.13:

What is the density of water at a depth where pressure is 80.0 atm, given that its density at the surface is $1.03 \times 10^3 \text{ kg m}^{-3}$?

Answer 9.13:

Let the given depth be h . Pressure at the given depth, $p = 80.0 \text{ atm} = 80 \times 1.01 \times 10^5 \text{ Pa}$

Density of water at the surface, $\rho_1 = 1.03 \times 10^3 \text{ kg m}^{-3}$

Let ρ_2 be the density of water at the depth h , let V_1 be the volume of water of mass m at the surface.

Let V_2 be the volume of water of mass m at the depth h and let ΔV be the change in volume.

$$\Delta V = V_1 - V_2$$

$$= m \left(\frac{1}{\rho_1} - \frac{1}{\rho_2} \right)$$

$$\therefore \frac{\Delta V}{V_1} = 1 - \frac{\rho_1}{\rho_2} \quad \dots (i)$$

$$\text{Bulk modulus, } B = \frac{pV_1}{\Delta V}$$

$$\frac{\Delta V}{V_1} = \frac{p}{B}$$

$$\text{Compressibility of water} = \frac{1}{B} = 45.8 \times 10^{-11} \text{ Pa}^{-1}$$

$$\therefore \frac{\Delta V}{V_1} = 80 \times 1.013 \times 10^5 \times 45.8 \times 10^{-11} = 3.71 \times 10^{-3}$$

For equations (i) and (ii), we get:

$$1 - \frac{\rho_1}{\rho_2} = 3.71 \times 10^{-3}$$

$$\rho_2 = \frac{1.03 \times 10^3}{1 - (3.71 \times 10^{-3})} = 1.034 \times 10^3 \text{ kg m}^{-3}$$

Therefore, the density of water at the given depth (h) is $1.034 \times 10^3 \text{ kg m}^{-3}$.

Question 9.14:

Compute the fractional change in volume of a glass slab, when subjected to a hydraulic pressure of 10 atm.

Answer 9.14:

Hydraulic pressure exerted on the glass slab, $p = 10 \text{ atm} = 10 \times 1.013 \times 10^5 \text{ Pa}$

Bulk modulus of glass, $B = 37 \times 10^9 \text{ Nm}^{-2}$

$$\text{Bulk modulus, } B = \frac{p}{\frac{\Delta V}{V}}$$

Where, $\frac{\Delta V}{V}$ = Fractional change in volume

$$\therefore \frac{\Delta V}{V} = \frac{p}{B} = \frac{10 \times 1.013 \times 10^5}{37 \times 10^9} = 2.73 \times 10^{-5}$$

Hence, the fractional change in the volume of the glass slab is 2.73×10^{-5} .

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Physics Solutions Manual Chapter 13

Ernest M Henley, Alejandro Garcia



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Henley, Alejandro Garcia, 2008-02-15 This is the solutions manual for many particularly odd numbered end of chapter problems in Subatomic Physics 3rd Edition by Henley and Garcia The student who has worked on the problems will find the solutions presented here a useful check on answers and procedures *Solutions for Selected Exercises and Problems to Accompany Physics, Second Edition, by Paul A. Tipler* E. Corinaldesi, 1985 Modern Atomic And Nuclear Physics (Revised Edition): Problems And Solutions Manual Fujia Yang, Joseph H Hamilton, 2010-06-01 This problems and solutions manual is

intended as a companion to an earlier textbook Modern Atomic and Nuclear Physics Revised Edition World Scientific 2010 This manual presents solutions to many end of chapter problems in the textbook These solutions are valuable to the

instructors and students working in the modern atomic field Students can master important information and concept in the process of looking at solutions to some problems and become better equipped to solve other problems that the instructors propose *Solutions Manual to Accompany Eisberg/Lerner Physics, Foundations and Applications, Volume I* William H.

Ingham, 1981 Student Solutions Manual for Non Linear Dynamics and Chaos Mitchal Dichter, 2024-03-15 This official Student Solutions Manual includes solutions to the odd numbered exercises featured in the third edition of Steven Strogatz's classic text Nonlinear Dynamics and Chaos With Applications to Physics Biology Chemistry and Engineering The textbook and accompanying Student Solutions Manual are aimed at newcomers to nonlinear dynamics and chaos especially students taking a first course in the subject Complete with graphs and worked out solutions this manual demonstrates techniques for students to analyze differential equations bifurcations chaos fractals and other subjects Strogatz explores in his popular book

No-Frills Physics Matthew D. McCluskey, 2019-05-01 This textbook provides everything you need to get through a basic

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negative resistance diodes and power devices and an overview of integrated circuit technologies The chapters and the sections in each chapter are organized so as to enable instructors to select more rigorous and design related topics as they see fit

Physics for Scientists and Engineers with Modern Physics Douglas C. Giancoli, 2008 Key Message This book aims to explain physics in a readable and interesting manner that is accessible and clear and to teach readers by anticipating their needs and difficulties without oversimplifying Physics is a description of reality and thus each topic begins with concrete observations and experiences that readers can directly relate to We then move on to the generalizations and more formal treatment of the topic Not only does this make the material more interesting and easier to understand but it is closer to the way physics is actually practiced Key Topics INTRODUCTION MEASUREMENT ESTIMATING DESCRIBING MOTION KINEMATICS IN ONE DIMENSION KINEMATICS IN TWO OR THREE DIMENSIONS VECTORS DYNAMICS NEWTON S LAWS OF MOTION USING NEWTON S LAWS FRICTION CIRCULAR MOTION DRAG FORCES GRAVITATION AND NEWTON S6 SYNTHESIS WORK AND ENERGY CONSERVATION OF ENERGY LINEAR MOMENTUM ROTATIONAL MOTION ANGULAR MOMENTUM GENERAL ROTATION STATIC EQUILIBRIUM ELASTICITY AND FRACTURE FLUIDS OSCILLATIONS WAVE MOTION SOUND TEMPERATURE THERMAL EXPANSION AND THE IDEAL GAS LAW KINETIC THEORY OF GASES HEAT AND THE FIRST LAW OF THERMODYNAMICS SECOND LAW OF THERMODYNAMICS ELECTRIC CHARGE AND ELECTRIC FIELD GAUSS S LAW ELECTRIC POTENTIAL CAPACITANCE DIELECTRICS ELECTRIC ENERGY STORAGE ELECTRIC CURRENTS AND RESISTANCE DC CIRCUITS MAGNETISM SOURCES OF MAGNETIC FIELD ELECTROMAGNETIC INDUCTION AND FARADAY S LAW INDUCTANCE ELECTROMAGNETIC OSCILLATIONS AND AC CIRCUITS MAXWELL S EQUATIONS AND ELECTROMAGNETIC WAVES LIGHT REFLECTION AND REFRACTION LENSES AND OPTICAL INSTRUMENTS THE WAVE NATURE OF LIGHT INTERFERENCE DIFFRACTION AND POLARIZATION SPECIAL THEORY OF RELATIVITY EARLY QUANTUM THEORY AND MODELS OF THE ATOM QUANTUM MECHANICS QUANTUM MECHANICS OF ATOMS MOLECULES AND SOLIDS NUCLEAR PHYSICS AND RADIOACTIVITY NUCLEAR ENERGY EFFECTS AND USES OF RADIATION ELEMENTARY PARTICLES ASTROPHYSICS AND COSMOLOGY Market Description This book is written for readers interested in learning the basics of physics

An Introduction to System Modeling and Control John Chiasson, 2022-03-22 A practical and straightforward exploration of the basic tools for the modeling analysis and design of control systems In An Introduction to System Modeling and Control Dr Chiasson delivers an accessible and intuitive guide to understanding modeling and control for students in electrical mechanical and aerospace aeronautical engineering The book begins with an introduction to the need for control by describing how an aircraft flies complete with figures illustrating roll pitch and yaw control using its ailerons elevators and rudder respectively The book moves on to rigid body dynamics about a single axis gears cart rolling down an incline and then to modeling DC motors DC tachometers and optical encoders Using the transfer function representation of these dynamic

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