

Physics

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(Chapter 1) (Units and Measurement) (Exercises)

(Class 11)

Question 1.1:

Fill in the blanks

(a) The volume of a cube of side 1 cm is equal tom³

(b) The surface area of a solid cylinder of radius 2.0 cm and height 10.0 cm is equal to ... (mm)²

(c) A vehicle moving with a speed of 18 km h⁻¹ covers...m in 1 s

(d) The relative density of lead is 11.3. Its density isg cm⁻³ or ...kg m⁻³.

Answer 1.1:

(a) $1 \text{ cm} = \frac{1}{100} \text{ m}$

Volume of the cube = 1 cm³

But, $1 \text{ cm}^3 = 1 \text{ cm} \times 1 \text{ cm} \times 1 \text{ cm} = \left(\frac{1}{100}\right) \text{ m} \times \left(\frac{1}{100}\right) \text{ m} \times \left(\frac{1}{100}\right) \text{ m}$

$\therefore 1 \text{ cm}^3 = 10^{-6} \text{ m}^3$

Hence, the volume of a cube of side 1 cm is equal to 10⁻⁶ m³.

(b) The total surface area of a cylinder of radius r and height h is

$S = 2\pi r (r + h)$. Given that, $r = 2 \text{ cm} = 2 \times 10 \text{ mm} = 20 \text{ mm}$

$h = 10 \text{ cm} = 10 \times 10 \text{ mm} = 100 \text{ mm} = 15072 = 1.5 \times 10^4 \text{ mm}^2$

$\therefore S = 2 \times 3.14 \times 20 \times (20 + 100)$

(c) Using the conversion,

$1 \text{ km/h} = \frac{5}{18} \text{ m/s}$

$18 \text{ km/h} = 18 \times \frac{5}{18} = 5 \text{ m/s}$

Therefore, distance can be obtained using the relation: Distance = Speed \times Time = 5 \times 1 = 5 m

Hence, the vehicle covers 5 m in 1 s.

(d) Relative density of a substance is given by the relation,

Relative density = $\frac{\text{Density of substance}}{\text{Density of water}}$

Density of water = 1 g/cm³

Density of lead = Relative density of lead \times Density of water = 11.3 \times 1 = 11.3 g/cm³

Again, $1 \text{ g} = \frac{1}{1000} \text{ kg}$

$1 \text{ cm}^3 = 10^{-6} \text{ m}^3$

$1 \text{ g/cm}^3 = \frac{10^{-3}}{10^{-6}} \text{ kg/m}^3 = 10^3 \text{ kg/m}^3$

$\therefore 11.3 \text{ g/cm}^3 = 11.3 \times 10^3 \text{ kg/m}^3$

Question 1.2:

Fill in the blanks by suitable conversion of units

(a) $1 \text{ kg m}^2 \text{ s}^{-2} = \dots \text{ g cm}^2 \text{ s}^{-2}$

(b) $1 \text{ m} = \dots \text{ ly}$

(c) $3.0 \text{ m s}^{-2} = \dots \text{ km h}^{-2}$

(d) $G = 6.67 \times 10^{-11} \text{ N m}^2 (\text{kg})^{-2} = \dots (\text{cm})^3 \text{ s}^{-2} \text{ g}^{-1}$.

Physics Study Guide Answers Chapter 11

R Sandford



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Study Guide and Student Solutions Manual for Wilson College Physics David Cordes, Jerry D. Wilson, John Kinard, 1990 This reader friendly book presents the fundamental principles of physics in a clear and concise manner Emphasizing conceptual understanding as the basis for mastering a variety of problem solving tools it provides a wide range of relevant applications and illustrative examples This book discusses mechanics thermodynamics and oscillations and wave motion For anyone wishing to learn more about the fundamentals of physics and how physical principles apply to a variety of real world situations devices and topics

Student Study Guide & Selected Solutions Manual Frank L. H Wolfs, 2008
Study Guide and Student Solutions Manual to Accompany Physics for Scientists and Engineers, by Serway Raymond A. Serway, Steven Van Wyk, 1996

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Student Study Guide and Solutions Manual Bo Lou, 2002-08
Student Study Guide and Selected Solutions Manual, Volume 2 Bo Lou, 2006-05
An Introduction to Physics Harvard Project Physics, 1968
Study Guide, Student Solutions Manual John R. Gordon, 1998

Student Study Guide to Accompany Fundamentals of Physics, Rev. Printing, Physics, 3d Ed., Parts 1 and 2 Stanley A. Williams, 1978
Study Guide to Accompany Halliday and Resnick Fundamentals of Physics 2nd Ed. and Physics, Combined, 3rd Ed. Stanley A. Williams, 1981-04-27 This popular book incorporates modern approaches to physics It not only tells readers how physics works it shows them Applications have been enhanced to form a bridge between concepts and reasoning

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Study Guide, Student Solutions Manual Raymond A. Serway, John R. Gordon, 1998

Calculus I Jerrold Marsden, Alan Weinstein, 2012-12-06 The goal of this text is to help students learn to use calculus intelligently for solving a wide variety of mathematical and physical problems This book is an outgrowth of our teaching of calculus at Berkeley and the present edition incorporates many improvements based on our use of the first edition We list below some of the key features of the book Examples and Exercises The exercise sets have been carefully constructed to be of maximum use to the students With few exceptions we adhere to the following policies The section exercises are graded into three consecutive groups a The first exercises are routine modelled almost exactly on the exam ples these are intended to give students confidence b Next come

exercises that are still based directly on the examples and text but which may have variations of wording or which combine different ideas these are intended to train students to think for themselves c The last exercises in each set are difficult These are marked with a star and some will challenge even the best students Difficult does not necessarily mean theoretical often a starred problem is an interesting application that requires insight into what calculus is really about The exercises come in groups of two and often four similar ones

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Introductory College Physics Joseph F. Mulligan,David A. Jerde,1990-12

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