

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, $r = 2 \text{ cm} = 2 \times 10 \text{ mm} = 2 \times 10 \text{ mm}$

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

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

(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, $1 \text{ g} = \frac{1}{100} \text{ kg}$

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

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

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

Question 1.2:

Fill in the blanks by suitable conversion of units

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

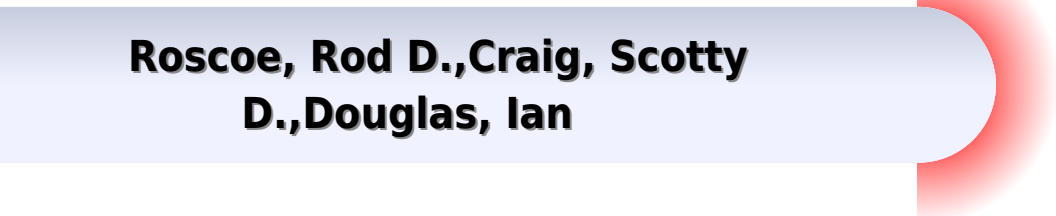
(b) $1 \text{ m} = \dots \text{ ly}$

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

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

Mastering Physics Solutions Chapter 11

**Roscoe, Rod D., Craig, Scotty
D., Douglas, Ian**



Mastering Physics Solutions Chapter 11:

Mastering Physics Martin Harrison, Frank McKim, 1999-11-11 This new edition of Mastering Physics has been completely updated and rewritten to give all the information needed to learn and master the essentials of physics It is a self contained clearly explained course for individual study or classroom use which requires no prior knowledge The book is highly illustrated throughout to show the importance of physics in the natural world as well as in such fields as athletics engineering medicine and music Questions and examples are also included throughout covering a broad range of topics such as environmental issues motor racing and space flight High School Physics Unlocked The Princeton Review, 2016-10-18 Presents high school level physics instruction covering one and dimensional motion forces and mechanics energy and momentum gravity and satellite motion thermodynamics waves and sound electric interactions and light and optics Each chapter begins with clearly stated objectives and includes reviews of content examples key chain sidebars and practice questions and solutions **Introductory Physics with Algebra as a Second Language** Stuart E. Loucks, 2006-08-04 Many students find it difficult to master the fundamental skills that are essential to succeeding in physics Now with this helpful book they ll quickly learn how to break physics down into basic steps Author Stuart Loucks presents the material in a way that will motivate and empower them He offers clear explanations of key concepts while examining the fundamental topics and approaches needed to solve algebra based physics problems Understand the basic language of physics Introductory Physics with Algebra as a Second Language™ will help you make sense of your textbook and class notes so that you can use them more effectively The text explains key topics in algebra based physics in clear easy to understand language Break problems down into simple steps Introductory Physics with Algebra as a Second Language™ teaches you to recognize details that tell you how to begin new problems You will learn how to effectively organize the information decide on the correct equations and ultimately solve the problem Learn how to tackle unfamiliar physics problems Stuart Loucks coaches you in the fundamental concepts and approaches needed to set up and solve the major problem types As you learn how to deal with these kinds of problems you will be better equipped to tackle problems you have never seen before Improve your problem solving skills You ll learn timesaving problem solving strategies that will help you focus your efforts and avoid potential pitfalls **Mastering Autodesk 3ds Max 2013** Jeffrey Harper, 2012-08-30 Get professional training in 3ds Max from this Autodesk Official Training Guide Extremely popular with video game designers as well as architects 3ds Max offers integrated 3D modeling animation rendering and compositing tools designed to streamline production If you already have a working knowledge of 3ds Max basics this official guide will take your skills to the next level Detailed tutorials cover all the latest features of 3ds Max From modeling texturing animation and architectural visualization to high level techniques for film television games and more this book provides professional level instruction on 3ds Max Those who are proficient in 3ds Max basics can take their 3D animation skills to the next level with this Autodesk Official Training Guide Offers industry level

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To continue the effective development of such innovations the intended users must be taken into account End User Considerations in Educational Technology Design is a pivotal reference source for the latest scholarly material on usability testing techniques and user centered design methodologies in the development of technological tools for learning environments Highlighting a range of pertinent topics such as multimedia learning human computer interaction and online learning this book is ideally designed for academics researchers school administrators professionals and practitioners interested in the design of optimized educational technologies *Information Technology* Ingrid Koreneff, Kerry Sims-McLean, 2005 Princeton Review AP Physics 2 Prep, 9th Edition The Princeton Review, 2023-08-01 EVERYTHING YOU NEED TO HELP SCORE A PERFECT 5 Ace the AP Physics 2 Exam with this comprehensive study guide including 2 full length practice tests with complete explanations thorough content reviews targeted exam strategies and access to online extras Techniques That Actually Work Tried and true strategies to avoid traps and beat the test Tips for pacing yourself and guessing logically Essential tactics to help you work smarter not harder Everything You Need for a High Score Fully aligned with the latest College Board standards for AP Physics 2 Comprehensive coverage of thermodynamics fluid statics and dynamics electrostatics magnetic fields electromagnetism geometric and physical optics and more Tons of charts and figures to illustrate key concepts Access to study plans a handy list of equations and formulas helpful pre college information and more via your online Student Tools Practice Your Way to Excellence 2 full length practice tests with detailed answer explanations Practice drills at the end of each content review chapter Step by step walk throughs of sample questions

Physics of Magnetic Thin Films Hung T. Diep, 2021-04-28 This book is for graduate students and researchers who wish to understand theoretical mechanisms lying behind macroscopic properties of magnetic thin films It provides a detailed description of basic theoretical methods and techniques of simulation to help readers in their research projects The first part of the book contains 6 chapters Chapters 1 to 5 focus on the fundamental theory of bulk magnetic materials Chapter 6 is devoted to the presentation of the Monte Carlo simulation methods Exercises and problems are provided at the end of each of these chapters for self training The second part contains 11 chapters devoted to the main topic of the book namely physics of magnetic thin films theory and simulation Written as a research paper each chapter focuses on a subject and also presents the state of the art literature on the subject and the motivation of the chapter A detailed description of the techniques and the presentation of the results are then shown with discussion *Princeton Review AP Physics 2 Premium Prep, 10th Edition* The Princeton Review, 2025-02-11 EVERYTHING YOU NEED TO HELP SCORE A PERFECT 5 Ace the NEWLY UPDATED AP Physics 2 Exam with this comprehensive study guide including 3 full length practice tests 2 in the book 1 online with complete explanations content reviews exam strategies and access to online extras AP Physics 2 is getting an update Starting with the Fall 2024 course and the May 2025 exam students testing on this challenging topic will find both an expanded range of content and a revised exam format with new question types This book addresses it all and helps you

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