

SOLUTIONS TO END-OF-CHAPTER PROBLEMS

Section 1.1 Standards of Length, Mass, and Time

P1.1 (a) Modeling the Earth as a sphere, we find its volume as

$$\frac{4}{3}\pi r^3 = \frac{4}{3}\pi(6.37 \times 10^6 \text{ m})^3 = 1.08 \times 10^{21} \text{ m}^3$$

Its density is then

$$\rho = \frac{m}{V} = \frac{5.98 \times 10^{24} \text{ kg}}{1.08 \times 10^{21} \text{ m}^3} = \boxed{5.52 \times 10^3 \text{ kg/m}^3}$$

(b) This value is intermediate between the tabulated densities of aluminum and iron. Typical rocks have densities around 2000 to 3000 kg/m³. The average density of the Earth is significantly higher, so higher-density material must be down below the surface.

P1.2 (a) $\rho = m/V$ and $V = (4/3)\pi r^3 = (4/3)\pi(d/2)^3 = \pi d^3/6$, where d is the diameter.

$$\text{Then } \rho = 6m / \pi d^3 = \frac{6(1.67 \times 10^{-27} \text{ kg})}{\pi(2.4 \times 10^{-15} \text{ m})^3} = \boxed{2.3 \times 10^{17} \text{ kg/m}^3}$$

(b) $\frac{2.3 \times 10^{17} \text{ kg/m}^3}{22.6 \times 10^3 \text{ kg/m}^3} = \boxed{1.0 \times 10^{13} \text{ times the density of osmium}}$

P1.3 For sphere the volume is $V = \frac{4}{3}\pi r^3$ and the mass is $m = \rho V = \rho \frac{4}{3}\pi r^3$.

We divide this equation for the larger sphere by the same equation for the smaller:

$$\frac{m_L}{m_s} = \frac{\rho(4/3)\pi r_L^3}{\rho(4/3)\pi r_s^3} = \frac{r_L^3}{r_s^3} = 5$$

Then $r_L = r_s \sqrt[3]{5} = (4.50 \text{ cm})\sqrt[3]{5} = \boxed{7.69 \text{ cm}}$

Physics Solution Manual Chapter 22

David D. Reid



Physics Solution Manual Chapter 22:

Physics for Scientists and Engineers Student Solutions Manual David Mills, 2007-05-18 The manual prepared by David Mills professor emeritus at the College of the Redwoods in California provides solutions for selected odd numbered end of chapter problems in the textbook and uses the same side by side format and level of detail as the Examples in the text

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Instructor's Manual with Abbreviated Solutions to Accompany University Physics Alvin Hudson, 1982

Fundamentals of Physics, Solutions Manual Edward Derrin, David Halliday, Robert Resnick, 1988-08-30 This third edition of the famous introductory physics text has been thoroughly revised and updated The new edition contains two entirely new chapters Relativity as the concluding chapter of the regular version and Particles and the Cosmos as the concluding chapter of the extended version New also are 16 essays distributed throughout the text on applications of physics to real world topics of student interest Each essay is self contained and is written by an expert in the topic The body of the text contains more help in problem solving and the chapter sections are shorter making the material more accessible There are more photos and diagrams than before including attention getting chapter head photos and captions The number of worked examples has been increased as has the number of questions exercises and problems In addition a thread of ideas from relativistic and quantum physics is weaved through the earlier chapters preparing the way for the later chapters

Introductory College Physics, Solutions Manual Atam Parkash Arya, 1979

Student Study Guide and Solutions Manual for Gener Al Physics Morton M. Sternheim, 1986

Physics for Scientists and Engineers, Volume 2: Electricity, Magnetism, Light, and Elementary Modern Physics Paul Allen Tipler, 2004

University Physics Student Solutions Manual Albert Lewis Ford, Hugh D. Young, 1992

Fundamentals of Physics, Extended David Halliday, Robert Resnick, Jearl Walker, 2013-08-13 The 10th edition of Halliday's *Fundamentals of Physics Extended* building upon previous issues by offering several new features and additions The new edition offers most accurate extensive and varied set of assessment questions of any course management program in addition to all questions including some form of question assistance including answer specific feedback to facilitate success The text also offers multimedia presentations videos and animations of much of the material that provide an

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Student Solutions Manual and Study Guide to Accompany Physics for Scientists and Engineers John R. Gordon,Raymond A. Serway,2004 Written by John R Gordon Ralph McGrew and Raymond Serway the two volume manual features detailed solutions to 20 percent of the end of chapter problems from the text This manual also features a list of important equations concepts and answers to selected end of chapter questions *Ohanian Physics* Hans C. Ohanian,1985 **Instructor's Manual with Solutions to Accompany Physics for Scientists and Engineers, Second Edition** Henry W. Leap,1986

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