

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:

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

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

Modern Physics Laboratory Experiment Solution Manual

Marco Cascella



Modern Physics Laboratory Experiment Solution Manual:

Scientific and Technical Books and Serials in Print ,1984 **The Changing Role of Physics Depts. in Modern Universities** Redish,John Ridgen,1998-07-09 Annotation The proceedings of the August 1996 conference arranged in two volumes focus on the physics baccalaureate as passport to the workplace physics courses in service of students in other sciences and engineering and the physics department s responsibility in pre and in service education of teachers Issues include the changing goals of physics courses the impact of physics education research on instruction and applications of modern technologies Volume 1 contains the presentations and poster papers volume 2 contains description of 18 sample classes No index Annotation c by Book News Inc Portland Or The American Catalogue ,1905 American national trade bibliography The United States Catalog ,1928 Physics for Scientists and Engineers with Modern Physics Ginsberg,1994-11 Modern Physics Laboratory Manual Lester L. Skolil,Louis E. Smith,1973-06 *The Indiana University Catalogue ... Register ... Announcements* Indiana University,1915 *Indiana University Catalog* Indiana University,1915 *Indiana University Bulletin* ,1915 *Catalogue - Indiana University* Indiana University,1915 **Announcements of the College of Liberal Arts** Indiana University. College of Liberal Arts,1916 **El-Hi Textbooks and Serials in Print** ,1987 **Subject Index of the Modern Works Added to the British Museum Library** British Museum. Department of Printed Books,1922 **Subject Index of Modern Books Acquired** British Library,1922 **The American Catalog, 1900-1905** ,1905 **The Cumulative Book Index** ,1913 *A First course in physics* Robert Andrews Millikan,1913 The Publishers Weekly ,1903 The American Catalogue ,1900 **University of Denver Catalog** University of Denver,1913

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