

1장 물리학과 측정

P1.1 With $V = (\text{base area})(\text{height})$ $V = (\pi r^2)h$ and $\rho = \frac{m}{V}$, we have

$$\rho = \frac{m}{\pi r^2 h} = \frac{1 \text{ kg}}{\pi (19.5 \text{ mm})^2 (39.0 \text{ mm})} \left(\frac{10^9 \text{ mm}^3}{1 \text{ m}^3} \right)$$

$$\rho = \boxed{2.15 \times 10^4 \text{ kg/m}^3}.$$

P1.2 $V = V_o - V_i = \frac{4}{3} \pi (r_2^3 - r_1^3)$

$$\rho = \frac{m}{V}, \text{ so } m = \rho V = \rho \left(\frac{4}{3} \pi \right) (r_2^3 - r_1^3) = \boxed{\frac{4\pi \rho (r_2^3 - r_1^3)}{3}}.$$

P1.3 Use $1 \text{ u} = 1.66 \times 10^{-24} \text{ g}$.

(a) For He, $m_o = 4.00 \text{ u} \left(\frac{1.66 \times 10^{-24} \text{ g}}{1 \text{ u}} \right) = \boxed{6.64 \times 10^{-24} \text{ g}}.$

(b) For Fe, $m_o = 55.9 \text{ u} \left(\frac{1.66 \times 10^{-24} \text{ g}}{1 \text{ u}} \right) = \boxed{9.29 \times 10^{-23} \text{ g}}.$

(c) For Pb, $m_o = 207 \text{ u} \left(\frac{1.66 \times 10^{-24} \text{ g}}{1 \text{ u}} \right) = \boxed{3.44 \times 10^{-22} \text{ g}}.$

P1.4 Mass of gold abraded: $|\Delta m| = 3.80 \text{ g} - 3.35 \text{ g} = 0.45 \text{ g} = (0.45 \text{ g}) \left(\frac{1 \text{ kg}}{10^3 \text{ g}} \right) = 4.5 \times 10^{-4} \text{ kg}.$

Each atom has mass $m_o = 197 \text{ u} = 197 \text{ u} \left(\frac{1.66 \times 10^{-27} \text{ kg}}{1 \text{ u}} \right) = 3.27 \times 10^{-25} \text{ kg}.$

Now, $|\Delta m| = |\Delta N| m_o$, and the number of atoms missing is

$$|\Delta N| = \frac{|\Delta m|}{m_o} = \frac{4.5 \times 10^{-4} \text{ kg}}{3.27 \times 10^{-25} \text{ kg}} = 1.38 \times 10^{21} \text{ atoms}.$$

Solution Problem Serway Physics 8th Edition

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Student Solutions Manual and Study Guide for Serway and Jewett's Physics for Scientists and Engineers, Sixth Edition John R. Gordon, Ralph V. McGrew, 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

Instructor's Manual with Solutions to Accompany Physics for Scientists and Engineers, Second Edition Henry W. Leap, 1986 **Subject Guide to Books in Print**, 1991 Theory of Gyroscopic Effects for Rotating Objects Ryspek Usubamatov, 2022-06-30 This book highlights an analytical solution for the dynamics of axially rotating objects It also presents the theory of gyroscopic effects explaining their physics and using mathematical models of Euler's form for the motion of movable spinning objects to demonstrate these effects The major themes and approaches are represented by the spinning disc and the action of the system of interrelated inertial torques generated by the centrifugal and Coriolis forces as well as the change in the angular momentum The interrelation of inertial torques is based on the dependency of the angular velocities of the motions of the spinning objects around axes by the principle of mechanical energy conservation These kinetically interrelated torques constitute the fundamental principles of the mechanical gyroscope theory that can be used for any rotating objects of different designs like rings cones spheres paraboloids propellers etc Lastly the mathematical models for the gyroscopic effects are validated by practical tests The 2nd edition became necessary due to new development and corrections of mathematical expressions It contains new chapters about the Tippe top inversion and inversion of the spinning object in an orbital flight and the boomerang aerodynamics *Lagrangian Mechanics Problems and Solutions* Yiannis Menis, History of Classical Mechanics Classical Mechanics is one of the most important foundations of theoretical physics The term Classical Mechanics refers to the system of mathematical physics that began in the 17th century by Isaac Newton based on the astronomical theories of Johannes Kepler and Tycho Brahe This theory has been expanded and reformed by Lagrange and Hamilton Lagrangian Mechanics is one of the two fundamental branches of Analytical Dynamics along with Hamiltonian Mechanics It was formulated by the French mathematician Lagrange in the period 1783-88 In 1755 the Euler-Lagrange equation appears At that time both 19 year old Lagrange and 48 year old Euler are looking for a solution to the equinox problem Lagrange arrives at a solution in 1755 and sends it to Euler who processes it in order to arrive at a formula based on the Principle of Least Action according to which the path of a particle is the one that yields a stationary value of the action Quantum Mechanics can be established with aforementioned principle in conjunction with path integrals The latter were introduced by Dirac and Feynman The study of the problems of classical mechanics continued in the 20th century by great mathematicians such as Henri Poincaré reaching to date with the non-linear dynamics and the introduction of the concept of Chaos Classical Mechanics is an inexhaustible source of new issues and concerns This book aspires to be a

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