

1/1

$$a) m = \frac{W}{g} = \frac{3600}{32.2} = 111.8 \text{ slugs}$$

$$b) W = 3600 \text{ lb} \left[\frac{4.4482 \text{ N}}{\text{lb}} \right] = 16,010 \text{ N}$$

$$c) m = \frac{W}{g} = \frac{16,010}{9.81} = 1632 \text{ kg}$$

$$(\text{or } m = 111.8 \text{ slugs} \left[\frac{14.594 \text{ kg}}{\text{slug}} \right] = 1632 \text{ kg})$$

1/2

For a 180-lb person:

$$W = mg : 180 \text{ lb} = m (32.2 \text{ ft/sec}^2)$$

$$180 \text{ lb} \left(\frac{4.4482 \text{ N}}{\text{lb}} \right) = 801 \text{ N}$$

$$W = mg : 801 \text{ N} = m (9.81 \text{ m/s}^2)$$

$$m = 81.6 \text{ kg}$$

1/3

$$\underline{V_1} = 15 \left(\frac{4}{5} \underline{i} + \frac{3}{5} \underline{j} \right) = 12 \underline{i} + 9 \underline{j}$$

$$\underline{V_2} = 12 (-\cos 60^\circ \underline{i} + \sin 60^\circ \underline{j}) = -6 \underline{i} + 10.39 \underline{j}$$

$$\underline{V_1} + \underline{V_2} = 15 + 12 = 27$$

$$\underline{V_1} + \underline{V_2} = (12-6) \underline{i} + (9+10.39) \underline{j} = 6 \underline{i} + 19.39 \underline{j}$$

$$\underline{V_1} - \underline{V_2} = (12-(-6)) \underline{i} + (9-10.39) \underline{j} = 18 \underline{i} - 1.39 \underline{j}$$

$$\underline{V_1} \times \underline{V_2} = (12 \underline{i} + 9 \underline{j}) \times (-6 \underline{i} + 10.39 \underline{j})$$

$$= (24.7 + 54) \underline{k} = 178.7 \underline{k}$$

$$\underline{V_2} \times \underline{V_1} = -(\underline{V_1} \times \underline{V_2}) = -178.7 \underline{k}$$

$$\underline{V_1} \cdot \underline{V_2} = (12 \underline{i} + 9 \underline{j}) \cdot (-6 \underline{i} + 10.39 \underline{j})$$

$$= 12(-6) + 9(10.39) = 21.5$$

1/4

The weight of an average apple is

$$W = \frac{5 \text{ lb}}{12 \text{ apples}} = 0.417 \text{ lb}$$

$$\text{Mass in slugs is } m = \frac{W}{g} = \frac{0.417}{32.2} = 0.01294 \text{ slugs}$$

$$\text{Mass in kg is } m = 0.01294 \text{ slugs} \left(\frac{14.594 \text{ kg}}{1 \text{ slug}} \right) = 0.1888 \text{ kg}$$

$$\text{Weight in N is } W = mg = 0.1888 (9.81) = 1.853 \text{ N}$$

These apples weigh closer to 2 N each than to the rule of 1 N each!

1/5

Mass of iron sphere $m = \rho V$

$$= (7210 \frac{\text{kg}}{\text{m}^3}) \left(\frac{4}{3} \pi (0.05)^3 \right) = 3.78 \text{ kg}$$

Force of mutual attraction: $\frac{Gm^2}{d^2}$ Weight of each sphere: $\frac{Gm_0 m}{r^2}$

$$\begin{aligned} \frac{Gm^2}{d^2} &= \frac{Gm_0 m}{r^2}, \quad r = d \sqrt{\frac{m_0}{m}} \\ &= 0.1 \sqrt{\frac{2(4.9 \times 10^{24})}{3.78}} \frac{1}{209} \\ &= 1.258 (10^9) \text{ km} \end{aligned}$$

1/6



$$\begin{aligned} F_B &= \frac{Gm_1 m_2}{d_{AB}^2} = \frac{G \left(\rho \frac{4}{3} \pi r^3 \right) \left(\rho \frac{4}{3} \pi r^3 \right)}{d_{AB}^2} \\ &= \frac{6.673 (10^{-11}) \left[\frac{4}{3} \pi (0.050)^3 \right]^2 (8710)(2670)}{1^2} \end{aligned}$$

$$= 4.38 (10^{-10}) \text{ N}$$

$$\begin{aligned} F_C &= \frac{Gm_1 m_0}{d_{AC}^2} = \frac{G \left[\frac{4}{3} \pi r^3 \right]^2 \rho_0 \rho_c}{d_{AC}^2} \\ &= \frac{6.673 (10^{-11}) \left[\frac{4}{3} \pi (0.050)^3 \right]^2 (8710)(7210)}{1^2} \end{aligned}$$

$$= 1.175 (10^{-9}) \text{ N}$$

$$\begin{aligned} \underline{R} &= \underline{F_B} + \underline{F_C} = 4.38 (10^{-10}) [-\sin 30^\circ \underline{i} + \cos 30^\circ \underline{j}] \\ &\quad + 1.175 (10^{-9}) [\sin 30^\circ \underline{i} + \cos 30^\circ \underline{j}] \end{aligned}$$

$$\underline{R} = (3.68 \underline{i} + 13.98 \underline{j}) 10^{-10} \text{ N}$$

1/7

$$\begin{aligned} \underline{g_h} &= \frac{Gm_0}{(R+h)^2} \\ &= \frac{(3.438 \times 10^{-30}) (4.075 \times 10^{22})}{[(3151)(5220) + (150)(5220)]^2} = 2.11 \text{ ft/sec}^2 \end{aligned}$$

$$\text{Mass of man: } m = \frac{W}{g} = \frac{200}{32.174} = 6.22 \text{ slugs}$$

Absolute weight at $h = 100$ miles:

$$W_h = mg_h = (6.22)(2.11) = 132.0 \text{ lb}$$

The terms "zero-g" and "weightless" are definitely misnomers in this instance.

1/8

$$mg = 0.1 mg_0$$

$$\frac{R^2}{(R+h)^2} g_0 = 0.1 g_0$$

$$\text{Solve for } h \text{ to obtain } h = 2.16R$$

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Ronald L Huston,C Q Liu



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implementing parallel robots **Books in Print Supplement** ,1994 **Nonlinear Vibration and Dynamics of Smart Continuous Structures and Materials** Majid Ghadiri,2025-05-08 Nonlinear Vibration and Dynamics of Smart Continuous Structures and Materials delves into intricate subjects concerning the analysis of nonlinear vibration issues in continuous structures It covers general concepts and a history of nonlinear systems before evolving into kinetics and solution methods of continuous structures Exploring the implementation of new types of materials in various sectors of automobile aerospace and structural engineering the book provides applicable information on the behaviors of smart structures The book provides a set of mathematical formulations to solve nonlinear static and dynamic behaviors of smart continuous structures by applying principles of elasticity The book will interest academic researchers and graduate students studying structural engineering mechanics of solids and smart materials Books in Print ,1977 **Engineering Mechanics: Statics, Australian New Zealand Edition** James L. Meriam,L. Glenn Kraige,Jeff N. Bolton,2019-07-09 A foundation in mechanics principles with integrated engineering design problems Recognized for its accuracy and reliability Engineering Mechanics Statics has provided a solid foundation of mechanics principles for decades The ninth edition helps students develop problem solving skills This text for Australia and New Zealand includes helpful sample and practice problems It guides students in developing visualization and problem solving skills by focusing on the drawing of free body diagrams a key skill for solving mechanics problems Engineering Mechanics, Dynamics, Study Guide J. L. Meriam,L. G. Kraige,1997-03-21 This concise and authoritative book emphasizes basic principles and problem formulation It illustrates both the cohesiveness of the relatively few fundamental ideas in this area and the great variety of problems these ideas solve All of the problems address principles and procedures inherent in the design and analysis of engineering structures and mechanical systems with many of the problems referring explicitly to design considerations **The British National Bibliography** Arthur James Wells,1998

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