

1/1

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

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

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

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

1/2 For a 180-lb person:

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

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

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

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

$$1/3 \quad \underline{V_1 = 15 \left(\frac{5}{16} \hat{i} + \frac{3}{8} \hat{j} \right) = 12 \hat{i} + 9 \hat{j}}$$

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

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

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

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

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

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

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

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

$$= 12(-6) + 9(10.39) = \underline{21.5}$$

1/4 The weight of an average apple is

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

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

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

$$= \underline{0.1888 \text{ kg}}$$

$$\text{Weight in N is } W = mg = 0.1888 (9.8) = \underline{1.853 \text{ N}}$$

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

1/5

$$\text{Mass of iron sphere } m = \rho V$$

$$= (7210 \frac{\text{kg}}{\text{m}^3}) \left(\frac{4}{3} \pi (0.050^3) \right) = \underline{3.78 \text{ kg}}$$

$$\text{Force of mutual attraction: } \frac{Gm^2}{d^2}$$

$$\text{Weight of each sphere: } \frac{Gm_E m}{r^2}$$

$$\frac{Gm^2}{d^2} = \frac{Gm_E m}{r^2}, \quad r = d \sqrt{\frac{m_E}{m}}$$

$$= 0.1 \sqrt{\frac{5.97 \times 10^{24} \text{ kg}}{3.78}} \quad \frac{1}{10^3}$$

$$= \underline{1.255 (10^3) \text{ km}}$$

1/6



$r = 0.050 \text{ m}$ for all spheres

$$F_G = \frac{Gm_1 m_2}{d_{12}^2} = \frac{G \left(\rho \frac{4}{3} \pi r^3 \right) \left(\rho \frac{4}{3} \pi r^3 \right)}{d_{12}^2}$$

$$= \frac{6.673 (10^{-11}) \left[\frac{4}{3} \pi (0.050)^3 \right]^2 (8710)(2670)}{1^2}$$

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

$$F_c = \frac{Gm_1 m_2}{d_{12}^2} = \frac{G \left[\frac{4}{3} \pi r^3 \right]^2 \rho_1 \rho_2}{d_{12}^2}$$

$$= \frac{6.673 (10^{-11}) \left[\frac{4}{3} \pi (0.050)^3 \right]^2 (8710)(7210)}{1^2}$$

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

$$\underline{R = F_G + F_c = 4.38 (10^{-10}) [-\sin 30^\circ \hat{i} + \cos 30^\circ \hat{j}]}$$

$$+ 1.175 (10^{-9}) [\sin 30^\circ \hat{i} + \cos 30^\circ \hat{j}]$$

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

1/7

$$g_h = \frac{Gm_E}{(R+h)^2}$$

$$= \frac{(6.435 \times 10^{23}) (4.075 \times 10^{-10})}{[(3757)(5280) + (150)(5280)]^2} = \underline{29.9 \text{ ft/sec}^2}$$

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

Absolute weight at $h = 150$ miles:

$$\underline{W_h = mg_h = (6.22)(29.9) = 186.0 \text{ lb}}$$

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

1/8

$$mg = 0.1 mg_0$$

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

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

Meriam Kraige Dynamics Solution Chapter 6

Meriam.J.L. (James L.),L. Glenn Kraige



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Engineering Dynamics Oliver M. O'Reilly, 2013-03-09 Scope, Aims, and Audiences This primer is intended to provide the theoretical background for the standard undergraduate course in dynamics. This course is usually based on one of the following texts: Bedford and Fowler 6, Beer and Johnston 7, Hibbeler 33, Meriam and Kraige 39, Riley and Sturges 50, and Shames 56, among others. Although most teachers will have certain reservations about these texts, there appears to be a general consensus that the selection of problems in each of them presents an invaluable and essential aid for studying and understanding dynamics. I myself use Meriam and Kraige 39 when teaching such a course, which is referred to as ME104 at the University of California at Berkeley. However, I have found that the gap between the theory presented in the aforementioned texts and the problems I wished my students to solve was too large. As a result, I prepared my own set of notes on the relevant theory, and I used Meriam and Kraige 39 as a problem and homework resource. This primer grew out of these notes. Its content was also heavily influenced by three other courses that I teach: one on rigid body dynamics, one on Lagrangian mechanics, and another on Hamiltonian mechanics. Because I use the

primer as a supplement I have only included a set of brief exercises at the end of each chapter

700 Solved Problems In Vector Mechanics for Engineers: Dynamics Joseph F. Shelley, 1991-04 Suitable for 2nd year college and university engineering students this book provides them with a source of problems with solutions in vector mechanics that covers various aspects of the basic course It offers the comprehensive solved problem reference in the subject It also provides the student with the problem solving drill

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Solving Dynamics Problems in MathCad A Supplement to Accompany Engineering Mechanics: Dynamics, 5th Edition by Meriam & Kraige Brian Harper, 2001-11-26 If MathCad is the computer algebra system you need to use for your engineering calculations and graphical output Harper's Solving Dynamics Problems in MathCad is the reference that will be a valuable

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Solving Dynamics Problems in Maple by Brian Harper T/a Engineering Mechanics Dynamics 6th Edition by Meriam and Kraige Brian D. Harper,J. L. Meriam,L. G. Kraige,2006-12-15 **32nd Aerospace Sciences Meeting & Exhibit: 94-0840 - 94-0872** ,1994 **Engineering Mathematics for Marine Applications** Umesh A. Korde,R. Cengiz Ertekin,2023-05-25 Gaining expertise in marine floating systems typically requires access to multiple resources to obtain the knowledge required but this book fills the long felt need for a single cohesive source that brings together the mathematical methods and dynamic analysis techniques required for a meaningful analysis primarily of large and small bodies in oceans You will be introduced to fundamentals such as vector calculus Fourier analysis and ordinary and partial differential equations Then you ll be taken through dimensional analysis of marine systems viscous and inviscid flow around structures surface waves and floating bodies in waves Real life applications are discussed and end of chapter problems help ensure full understanding Students and practicing engineers will find this an invaluable resource for developing problem solving and design skills in a challenging ocean environment through the use of engineering mathematics *Engineering Mechanics , Statics* J. L. Meriam,L. G. Kraige,2001-08-28 **Statics** James L. Meriam,L. Glenn Kraige,1986 *Scientific and Technical Books and Serials in Print* ,1989

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