

1/1

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

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

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

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

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: $\frac{Gm_0 m}{r^2}$

$$\begin{aligned} \frac{Gm^2}{d^2} &= \frac{Gm_0 m}{r^2}, \quad r = d \sqrt{\frac{m_0}{m}} \\ &= 0.1 \sqrt{\frac{2.4 \times 10^{24}}{3.78}} \frac{1}{209} \\ &= 1.258 (10^9) \text{ km} \end{aligned}$$

1/6



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

$$\begin{aligned} F_B &= \frac{Gm_0 m}{d_{AB}^2} = \frac{G \left(\frac{4}{3} \pi r^3 \right) \left(\frac{4}{3} \pi r^3 \right)}{d_{AB}^2} \\ &= \frac{6.673 (10^{-11}) \left[\frac{4}{3} \pi (0.050)^3 \right]^2 (8710)(2670)}{1^2} \\ &= 4.38 (10^{-10}) \text{ N} \end{aligned}$$

$$\begin{aligned} F_C &= \frac{Gm_0 m}{d_{AC}^2} = \frac{G \left[\frac{4}{3} \pi r^3 \right]^2 \rho_0 \rho_c}{d_{AC}^2} \\ &= \frac{6.673 (10^{-11}) \left[\frac{4}{3} \pi (0.050)^3 \right]^2 (8710)(7210)}{1^2} \\ &= 1.175 (10^{-9}) \text{ N} \end{aligned}$$

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

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

1/7

$$\begin{aligned} g_h &= \frac{Gm_0}{(R+h)^2} \\ &= \frac{(3.438 \times 10^{-24}) (4.095 \times 10^{22})}{[(3151)(5220) + (150)(5220)]^2} = 2.11 \text{ ft/sec}^2 \end{aligned}$$

$$\text{Mass of man: } m = \frac{W}{g} = \frac{250}{32.174} = 6.22 \text{ slugs}$$

Absolute weight at $h = 150$ 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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Xiaolong Qi



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Engineering Applications of Dynamics Dean C. Karnopp, Donald L. Margolis, 2007-12-14 A GROUNDBREAKING TEXT THAT BRIDGES THE GAP BETWEEN THEORETICAL DYNAMICS AND INDUSTRY APPLICATIONS Designed to address the perceived failure of introductory dynamics courses to produce students capable of applying dynamic principles successfully both in subsequent courses and in practice Engineering Applications of Dynamics adopts a much needed practical approach designed to make the subject not only more relevant but more interesting as well Written by a highly respected team of authors the book is the first of its kind to tie dynamics theory directly to real world situations By touching on complex concepts only to the extent of illustrating their value in real world applications the authors provide students with a deeper understanding of dynamics in the engineering of mechanical systems Topics of interest include The formulation of equations in forms suitable for computer simulation Simulation examples of real engineering systems Applications to vehicle dynamics Lagrange's equations as an alternative formulation procedure Vibrations of lumped and distributed systems Three dimensional motion of rigid bodies with emphasis on gyroscopic effects Transfer functions for linearized dynamic systems Active control of dynamic systems A Solutions Manual with detailed solutions for all problems in this book is available at the Web site www.wiley.com/college/karnopp

Principles of Engineering Mechanics Millard F. Beatty, 2005-11-30 Separation of the elements of classical mechanics into kinematics and dynamics is an uncommon tutorial approach but the author uses it to advantage in this two volume set Students gain a mastery of kinematics first a solid foundation for the later study of the free body formulation of the dynamics problem A key objective of these volumes which present a vector treatment of the principles of mechanics is to help the student gain confidence in transforming problems into appropriate mathematical language that may be manipulated to give useful physical conclusions or specific numerical results In the first volume the elements of vector calculus and the matrix algebra are reviewed in appendices Unusual mathematical topics such as singularity functions and some elements of tensor analysis are introduced within the text A logical and systematic building of well known kinematic concepts theorems and formulas illustrated by examples and problems is presented offering insights into both fundamentals and applications Problems amplify the material and pave the way for advanced study of topics in mechanical design analysis advanced kinematics of mechanisms and analytical dynamics mechanical vibrations and controls and continuum mechanics of solids and fluids Volume I of Principles of Engineering Mechanics provides the basis for a stimulating and rewarding one term course for advanced undergraduate and first year graduate students specializing in mechanics engineering science engineering physics applied mathematics materials science and mechanical aerospace and civil engineering Professionals working in related fields of applied mathematics will find it a practical review and a quick reference for questions involving basic kinematics

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

VFLOW2D Walter P. Wolfe,James H. Strickland,Gregory F. Homicz,Albert A. Gossler,2000 A numerical flow model is developed to simulate two dimensional fluid flow past immersed elastically supported tube arrays This work is motivated by the objective of predicting forces and motion associated with both deep water drilling and production risers in the oil industry This work has other engineering applications including simulation of flow past tubular heat exchangers or submarine towed sensor arrays and the flow about parachute ribbons In the present work a vortex method is used for solving the unsteady flow field This method demonstrates inherent advantages over more conventional grid based computational fluid dynamics The vortex method is non iterative does not require artificial viscosity for stability displays minimal numerical diffusion can easily treat moving boundaries and allows a greatly reduced computational domain since vorticity occupies only a small fraction of the fluid volume A gridless approach is used in the flow sufficiently distant from surfaces A Lagrangian remap scheme is used near surfaces to calculate diffusion and convection of vorticity A fast multipole technique is utilized for efficient calculation of velocity from the vorticity field The ability of the method to correctly predict lift and drag forces on simple stationary geometries over a broad range of Reynolds numbers is presented

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 James L. Meriam,L. G. Kraige,2012-03-19 The 7th edition continues to provide the same high quality material seen in previous editions It provides extensively rewritten updated prose for content clarity superb new problems in new application areas outstanding instruction on drawing free body diagrams and new electronic supplements to assist learning and instruction

Essentials of Dynamics and Vibrations John Billingsley,2025-03-02 This updated second edition brings the complex mathematics of three dimensional dynamics to life with real time simulations making the equations easier to grasp Covering core topics in mechanical engineering such as kinematics dynamics vibration analysis gyroscopes gears and Euler s equations the book offers a clear and engaging approach for students professionals and enthusiasts alike With a focus on practical applications it explains everything from the laws of motion to motors and

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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 John ston 7 Hibbeler 33 Meriam and Kraige 39 Riley and Sturges 50 and Shames 56 among others Although most teachers will have cer tain reservations about these texts there appears to be a general consensus that the selection of problems each of them presents is 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 La 1 grangian 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

Meriam's Engineering Mechanics James L. Meriam, L. Glenn Kraige, J. N. Bolton, L. G. Kraige, 2020-03-17 Known for its accuracy clarity and dependability Meriam Kraige and Bolton s Engineering Mechanics Statics 9th Edition has provided a solid foundation of mechanics principles for more than 60 years This text continues to help students develop their problem solving skills with an extensive variety of engaging problems related to engineering design In addition to new homework problems the text includes a number of helpful sample problems To help students build necessary visualization and problem solving skills the text strongly emphasizes drawing free body diagrams one of the most important skills needed to solve mechanics problems

Journal of Dynamic Systems, Measurement, and Control , 2000 Publishes theoretical and applied original papers in dynamic systems Theoretical papers present new theoretical developments and knowledge for controls of dynamical systems together with clear engineering motivation for the new theory Applied papers include modeling simulation and corroboration of theory with emphasis on demonstrated practicality

The International Journal of Mechanical Engineering Education , 1978 **Subject Guide to Books in Print** , 1996

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 **Scientific and Technical Books in Print**
,1972 **FORENSIC ENGINEERING RECONSTRUCTION OF ACCIDENTS** John Fiske Brown,Kenneth S.

Obenski,Thomas R. Osborn,2003-01-01 This book is not an advanced engineering text Rather it is a practical presentation with traffic accident reconstruction principles presented in a simple understandable manner so that the reader will easily retain these important concepts The engineering principles involved are introduced at the elementary level and in many cases equations used in freshman physics are derived The authors believe that the derivations are presented in the simplest manner possible so that the reader will retain this material The book is the result of an effort to compile over a period of years useful forensic engineering data information and analytical techniques over and above those taught to non engineers Many of the mathematical treatments are original In general the book reflects the authors combined over forty years experience of forensic investigations involving thousands of cases It offers something for everyone interested in forensic engineering In the new second edition Chapters 3 to 5 have been substantially modified and the remainder of the text has been edited to bring its various parts up to date The experienced investigator will find a wealth of new ideas and relationships to fill in gaps in his knowledge and reinforce his analytical approaches Those starting new in this work will have an advantage on their competition after studying this material For the non technical reader most of the book is eminently readable To an investigator attorney or insurance adjuster with only a nodding acquaintance with freshman physics the book should be totally comprehensible

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