

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

$$\text{Mass of iron sphere } m = \rho V = (7210 \frac{\text{kg}}{\text{m}^3}) \left(\frac{4}{3} \pi (0.05)^3 \right) = 3.78 \text{ kg}$$

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

$$\text{Weight of each sphere: } \frac{Gm_0 m}{r^2}$$

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

1/6

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

$$F_B = \frac{Gm_B m_A}{d_{AB}^2} = \frac{G \left(f_A \frac{4}{3} \pi r^3 \right) \left(f_B \frac{4}{3} \pi r^3 \right)}{d_{AB}^2} = \frac{6.673 (10^{-11}) \left[\frac{4}{3} \pi (0.050)^3 \right]^2 (8710)(2670)}{1^2} = 4.38 (10^{-10}) \text{ N}$$

$$F_C = \frac{Gm_C m_A}{d_{AC}^2} = \frac{G \left[\frac{4}{3} \pi r^3 \right]^2 f_A f_C}{d_{AC}^2} = \frac{6.673 (10^{-11}) \left[\frac{4}{3} \pi (0.050)^3 \right]^2 (8710)(7210)}{1^2} = 1.175 (10^{-9}) \text{ N}$$

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

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

1/7

$$g_h = \frac{Gm_0}{(R+h)^2} = \frac{(3.438 \times 10^{-5}) (4.075 \times 10^{22})}{[(3151)(5220) + (150)(5220)]^2} = 2.11 \text{ ft/sec}^2$$

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

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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J. L. Meriam, L. G. Kraige



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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 mechanisms providing a comprehensive understanding of mechanical systems New to this edition is a chapter on Power Energy and Perpetual Motion which reveals intriguing comparisons such as the energy needed to lift water versus the heat required to warm it The final chapter Rocket Science has been expanded to debunk myths about black holes and gravity humorously addressing science fiction misconceptions while proposing exciting space projects

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Principles of Vibration Analysis with Applications in Automotive Engineering Ronald L. Huston, C. Q. Liu, 2011-01-10 This book written for practicing engineers designers researchers and students summarizes basic vibration theory and established methods for analyzing vibrations Principles of Vibration Analysis goes beyond most other texts on this subject as it integrates the advances of modern modal analysis experimental testing and numerical analysis with fundamental theory No other book brings all of these topics together under one cover The authors have compiled these topics compared them and provided experience with practical application This must have book is a comprehensive resource that the practitioner will reference time and again

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Mechanical Vibrations György Szeidl,László Péter Kiss,2020-06-16 This book presents a unified introduction to the theory of mechanical vibrations The general theory of the vibrating particle is the point of departure for the field of multidegree of freedom systems Emphasis is placed in the text on the issue of continuum vibrations The presented examples are aimed at helping the readers with understanding the theory This book is of interest among others to mechanical civil and aeronautical engineers concerned with the vibratory behavior of the structures It is useful also for students from

undergraduate to postgraduate level The book is based on the teaching experience of the authors **Parallel Robots** Hamid D. Taghirad,2025-09-05 In today s rapidly evolving industrial landscape robotics has become essential for meeting the demands of large scale production Parallel robots with their closed loop kinematic structures offer unmatched precision rigidity and load bearing capabilities making them indispensable for tasks requiring high accuracy and efficiency This book explores the unique advantages of parallel robots providing a comprehensive resource for engineers researchers and students interested in mastering their design analysis and control Building on the success of its first edition this second edition has been extensively restructured and updated to reflect over a decade of progress in robotics It features expanded chapters on dynamics new sections on simulation and calibration and a detailed exploration of control techniques ranging from introductory linear methods to advanced force control With nearly 45% updated references the text ensures readers are equipped with cutting edge knowledge This book is both a comprehensive guide and a gateway to innovation providing detailed insights into the design simulation calibration and control of parallel robots Whether you are a newcomer to robotics or an experienced professional this text equips you with the knowledge to harness the full potential of parallel robots helping you stay ahead in the dynamic field of industrial automation *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

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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

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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

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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

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

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

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a break pressure tank which includes a tank structure a pipe arrangement defining a flow line leading through the tank structure from an inlet end connectable to a pipeline from reservoir and entering the tank structure near the top end thereof to an outlet end connectable to a pipeline leading to water supply points and leaving the tank

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construction the break pressure tank consists of the following 1000l 3cr12 stainless steel tank basket strainer with flush valve butterfly valve for isolation diaphragm operated level control valve inlet outlet and overflow pipe work operation the diaphragm valve in the bpt opens and closes as system demand fluctuates

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break pressure tank is a structure that is located between a water reservoir and supply point with the aim of reducing the pressure in the system to zero atmospheric pressure conventional break pressure tank is constructed of concrete in rectangular shape with the depth of the tank about 1.2m

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break pressure tanks which are usually made of concrete or ferrocement if break pressure tanks are used the hydraulic gradient starts again at the tank water level if suitably sized these tanks can be used within the system as storage tanks to meet peak demand reservoir storage tanks although a village's water needs are based upon a

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sep 28 2009 the velocity at the terminal point is 1.02m/s the pressure is assumed to be 18bars at the outlet point the principle of the break pressure tank is not to dissipate this energy via exit losses but rather by discharging the water into a tank with a free surface

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research and insight break tank break tanks are implemented in boosting systems to supply the system if the mains supply becomes insufficient tanks are also implemented in series connected boosting systems a break tank is also used to ensure that a surge from the starting and stopping pumps doesn't affect the mains distribution

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may 2 2016 installation of break pressure tanks bpts at proper locations on such pipelines provides a good solution to control water hammer pressure in the pipeline in some cases the pipeline on the downstream side of the bpt may be in the

form of an inverted siphon

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if you need to reduce the pressure in a water network you can either use a break pressure tank or a pressure reducing valve the following video demonstrates how to model and analyse a water network with a break pressure tank this video can also be found in our training on demand site bulk water channel

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aug 17 2020 after planning and selecting the site now turn to construct the bpt mostly the bpt is constructed downstream it is generally constructed of stone masonry rcc ferro cement etc bpt is a rectangular tank structure having a base of 1000mm 1000mm and a height of 1200mm

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this invention relates to a break pressure tank a break pressure tank as herein envisaged is used in a downstream location with respect to a water reservoir particularly for reducing and

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