

1/1

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

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

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

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

1/2 For a 180-lb person:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$F_B = \frac{Gm_B m_A}{d_{AB}^2} = \frac{G \left( \rho \frac{4}{3} \pi r^3 \right) \left( \rho \frac{4}{3} \pi r^3 \right)}{d_{AB}^2}$$

$$= \frac{6.673 (10^{-11}) \left[ \frac{4}{3} \pi (0.050)^3 \right]^2 (8700)(2670)}{1^2}$$

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

$$F_C = \frac{Gm_A m_C}{d_{AC}^2} = \frac{G \left[ \frac{4}{3} \pi r^3 \right]^2 \rho_A \rho_C}{d_{AC}^2}$$

$$= \frac{6.673 (10^{-11}) \left[ \frac{4}{3} \pi (0.050)^3 \right]^2 (8700)(7200)}{1^2}$$

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

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

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

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

1/7

$$3h = \frac{Gm_E}{(R+h)^2}$$

$$= \frac{(3.439 \times 10^8) (4.075 \times 10^{-3})}{[(3757)(5280) + (0.50)(5280)]^2} = \underline{29.9 \text{ ft/sec}^2}$$

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

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

**Brian Harper**



## **Meriam Kraige Dynamics Solution Chapter 6:**

**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. 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. **Introduction to Machine Dynamics** Mehrdaad Ghorashi, 2025-09-26 This book introduces machine dynamics, an essential competency important for many applications such as designing robots for manufacturing, materials handling, or the landing gear of an airplane; analyzing the motion of a piston in an internal combustion engine or a compressor; and designing a Mars Rover. Wherever a machine is used for force or power transmission or a mechanism creates a desired motion, the methods studied in this book provide the fundamental knowledge needed for optimal design. Specific sections are provided on different types of mechanisms and conditions that should be met for obtaining a desired performance, including kinematic analysis of mechanisms using direct differentiation, relative motion, kinematic coefficients, and instantaneous centers. The Newton-Raphson method for solving complex nonlinear position analysis problems is discussed, and the determination of dead and limit positions in mechanisms is presented. The relation between the angular velocity ratio theorem and the fundamental law of gearing is shown to provide a bridge between the concept of instantaneous centers and analyzing gears. Gears and gear trains are covered in detail, and calculation of gear

ratios in fixed axis and planetary gear trains using the rolling contact equations is illustrated Finally power and force transmission in machines is covered Static and dynamic cases are analyzed and the author shows how the static solutions can provide approximations for the dynamic problems where inertia effects are not significant low inertia and low accelerations Application of matrix algebra for solving the system of equations of equilibrium in statics or equations of motion in dynamics is also illustrated Because of the importance of balancing in any application involving rotating machinery static and dynamic balancing are analyzed The book concludes with a brief coverage of three dimensional dynamics including Euler's equations and gyroscopic effect Aimed at engineering students interested in machine dynamics across a range of disciplines the book is also ideal as a reference for practicing engineers with a good understanding of statics dynamics and matrix algebra

*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 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 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

**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

**Stress, Strain, and Structural Dynamics** Bingen Yang, 2005-04-07 Stress Strain and Structural Dynamics is

a comprehensive and definitive reference to statics and dynamics of solids and structures including mechanics of materials structural mechanics elasticity rigid body dynamics vibrations structural dynamics and structural controls This text integrates the development of fundamental theories formulas and mathematical models with user friendly interactive computer programs written in the powerful and popular MATLAB This unique merger of technical referencing and interactive computing allows instant solution of a variety of engineering problems and in depth exploration of the physics of deformation stress and motion by analysis simulation graphics and animation This book is ideal for both professionals and students dealing with aerospace mechanical and civil engineering as well as naval architecture biomechanics robotics and mechatronics For engineers and specialists the book is a valuable resource and handy design tool in research and development For engineering students at both undergraduate and graduate levels the book serves as a useful study guide and powerful learning aid in many courses And for instructors the book offers an easy and efficient approach to curriculum development and teaching innovation Combines knowledge of solid mechanics including both statics and dynamics with relevant mathematical physics and offers a viable solution scheme Will help the reader better integrate and understand the physical principles of classical mechanics the applied mathematics of solid mechanics and computer methods The Matlab programs will allow professional engineers to develop a wider range of complex engineering analytical problems using closed solution methods to test against numerical and other open ended methods Allows for solution of higher order problems at earlier engineering level than traditional textbook approaches

*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 tutorial for your studies Written as a guidebook for students taking the Engineering Mechanics course it will help you with your engineering assignments throughout the course Over the past 50 years Meriam Kraige's *Engineering Mechanics Dynamics* has established a highly respected tradition of Excellence A Tradition that emphasizes accuracy rigor clarity and applications Now completely revised redesigned and modernized the new fifth edition of this classic text builds on these strengths adding new problems and a more accessible student friendly presentation

**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

**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

**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

**Statics** Meriam, J.L. (James L.), L. Glenn Kraige, 2008 Over the past 50 years Meriam Kraige's Engineering Mechanics Statics has established a highly respected tradition of excellence a tradition that emphasizes accuracy rigor clarity and applications Now in a Sixth Edition this classic text builds on these strengths adding a comprehensive course management system Wiley Plus to the text including an e text homework management animations of concepts and additional teaching and learning resources New sample problems new homework problems and updates to content make the book more accessible The Sixth Edition continues to provide a wide variety of high quality problems that are known for their accuracy realism applications and variety motivating students to learn and develop their problem solving skills To build necessary visualization and problem solving skills the Sixth Edition continues to offer comprehensive coverage of drawing free body diagrams the most important skill needed to solve mechanics problems

Simple Rotor Analysis through Tutorial Problems Rajiv Tiwari, 2023-12-11 This book discusses various rotor systems rotor dynamics and dynamics of rotating machinery problems through tutorials Most of the covered problems can be derived and solved using hand calculations for deeper understanding of the subject It correlates

the examples provided in this book with real machinery where it can be used and readers can analyse their own simple rotor system based on the variety of examples presented All problems are supplemented by independent MATLAB codes for exploring the subject with more ease with graphical outputs Features Rotordynamics terminology and phenomena are introduced with very simple rotor bearing models In depth analytical dynamic analysis of rotors mounted in flexible bearings and the effect of gyroscopic effects in simple rotor systems are covered Offers the possibility for the reader to reproduce the results and see how the equations are derived and solved in rotor dynamics A few examples of simple rotor bearing coupling systems rotor bearing foundation systems and two spool rotors are covered Directions are provided to extend the present exercise problems and their solutions Examples are supplemented by MATLAB codes with detailed solution steps Includes multiple choice questions and their solutions This book is aimed at senior undergraduate graduate students in mechanical engineering as well as scientists and practice engineers from the field of rotordynamics rotating machinery turbomachinery and aerospace engineering

**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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rotate batting and fielding each half inning tied games may be left as ties or be played until a winner is found known as extra innings

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web rules of softball each team consists of 9 players and teams can be of mixed gender a game lasts for 7 innings and is split into two sections the top and bottom of the innings each team bats once in each innings before the sides switch the fielding team has a pitcher catcher a player on first base second base third base three deep

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