


3/1  $v_2^2 - v_1^2 = 2a(x_2 - x_1)$   
 $0^2 - \left(\frac{100}{3.2}\right)^2 = 2a_x(50)$ ,  $a_x = -7.72 \text{ m/s}^2$   


$\Sigma F_x = ma_x$ :  $-4F = 1500(-7.72)$   
 $F = 2870 \text{ N}$

3/2  $50(9.81) \text{ N}$   $\Sigma F_y = 0$ :  $N - 50(9.81) \cos 15^\circ = 0$   
 $N = 474 \text{ N}$  Throughout

(a)  $P = 0$   
 Equilibrium check:  
 $\Sigma F_x = 0$ :  $F - 50(9.81) \sin 15^\circ = 0$   
 $F = 127.9 \text{ N}$

$F_{\max} = \mu_s N = 0.2(474) = 94.8 \text{ N} < F$ : motion  $\checkmark$   
 $\Sigma F_x = ma_x$ :  $0.15(474) - 50(9.81) \sin 15^\circ = 50a_x$   
 $a_x = -1.118 \text{ m/s}^2$

(b)  $P = 150 \text{ N}$ ; Equilibrium check:  
 $\Sigma F_y = 0$ :  $150 + F - 50(9.81) \sin 15^\circ = 0$


$F = -23.9 \text{ N}$ ,  $|F| < F_{\max}$  so no motion:  $a = 0$

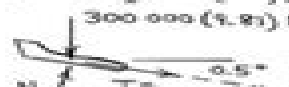
(c)  $P = 300 \text{ N}$ ; Equilibrium check yields  $F = -173.0 \text{ N}$   
 $|F| > F_{\max}$ , so motion  $\checkmark$ ,  $F = F_k \checkmark$ .  
 $\Sigma F_x = ma_x$ :  $300 - 0.15(474) - 50(9.81) \sin 15^\circ = 50a_x$   
 $a_x = 2.04 \text{ m/s}^2$


3/3  $80 \text{ lb}$   $\Sigma F_y = 0$ :  $N - 80 \cos 20^\circ = 0$   
 $N = 75.2 \text{ lb}$   
 $\Sigma F_x = ma_x$ :  
 $-0.25(75.2) - 80 \sin 20^\circ = \frac{80}{32.2} a$   
 $a = -18.58 \text{ ft/sec}^2$


$v = v_0 + at$ :  $0 = 30 - 18.58t$ ,  $t = 1.615 \text{ sec}$   
 $v^2 = v_0^2 + 2a(s - s_0)$ :  $0^2 = 30^2 + 2(-18.58)d$   
 $d = 24.2 \text{ ft}$

$v^2 = v_0^2 + 2a(s - s_0)$ :  $15^2 = 30^2 + 2(-18.58)d'$   
 $d' = 18.17 \text{ ft}$

3/4  $300,000(9.81) \text{ N}$   
  
 $\Sigma F_x = ma_x$ :  
 $3(240,000) - 300,000(9.81) \sin \frac{1}{2}^\circ = 300,000 a_x$   
 $a_x = 2.31 \text{ m/s}^2$

$v^2 = 2a_x s$ :  $\left(\frac{220}{3.6}\right)^2 = 2(2.31)s$ ,  $s_x = 807 \text{ m}$   
  
 $\Sigma F_x = ma_x$ :  
 $3(240,000) + 300,000(9.81) \sin \frac{1}{2}^\circ = 300,000 a_x$   
 $a_x = 2.49 \text{ m/s}^2$   
 $v^2 = 2a_x s$ :  $\left(\frac{220}{3.6}\right)^2 = 2(2.49)s$ ,  $s_x = 751 \text{ m}$

3/5 For entire unit:  $20,000 \text{ kg}$   $10,000 \text{ kg}$   
 $\Sigma F = ma$ :  $20,000 = 30,000a$   
 $a = 0.667 \text{ m/s}^2$   
  
 For trailer alone,  $T = 20,000(0.667) = 13,330 \text{ N}$   
 or  $T = 13.33 \text{ kN}$

3/6  $\Sigma F_x = ma_x$ :  $mg \sin 40^\circ - \mu_k mg \cos 40^\circ = ma$   
  
 $a = 9.81(\sin 40^\circ - \mu_k \cos 40^\circ)$   
 $= 6.31 - 7.51 \mu_k$

For constant accel.  $s = v_0 t + \frac{1}{2}at^2$ :  
 $20 = 0 + \frac{1}{2}(6.31 - 7.51 \mu_k)2.58^2$   
 $\mu_k = 0.0595$

3/7  $\Sigma F = ma$ :  $T - 100 = \frac{100}{32.2} a$   
 (a)  $T \uparrow$   $150 - T = \frac{100}{32.2} a$   
  
 $50 = \frac{200}{32.2} a$ ,  $a = \frac{32.2}{2} = 16.10 \frac{\text{ft}}{\text{sec}^2}$

(b)  $150 - 100 = \frac{100}{32.2} a$ ,  $a = \frac{32.2}{2} = 16.10 \frac{\text{ft}}{\text{sec}^2}$   


# Meriam Dynamics Solutions Chapter 3

**James L. Meriam**



### **Meriam Dynamics Solutions Chapter 3:**

**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

**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

*Dynamics - Formulas and Problems* Dietmar Gross, Wolfgang Ehlers, Peter Wriggers, Jörg Schröder, Ralf Müller, 2016-10-05 This book contains the most important formulas and more than 190 completely solved problems from Kinetics and Hydrodynamics It provides engineering students material to improve their skills and helps to gain experience in solving engineering problems Particular emphasis is placed on finding the solution path and formulating the basic equations Topics include Kinematics of a Point Kinetics of a Point Mass Dynamics of a System of Point Masses Kinematics of Rigid Bodies Kinetics of Rigid Bodies Impact Vibrations Non Inertial Reference Frames Hydrodynamics

**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

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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

**Statics and Dynamics** James L. Meriam,1966      **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

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**Mechanical Engineering**, 1983-06 **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 **Books in Print**, 1982 **International Physics & Astronomy Directory**, 1969 Intended as a comprehensive current source of professional information for the use of physicists and astronomers Faculty and brief biographical data listed under institutions which are arranged alphabetically Data about laboratories international organizations societies meetings financial support awards research and books and journals Faculty index Geographical index of universities and colleges **Principles of Vibration Analysis with Applications in Automotive Engineering** Ronald L Huston, C Q Liu, 2011-01-10 This book written for practicing engineers

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