

## 16.5



Given:  $\mu_s = 0.80$   
 Find: (a) Assume  
 (a) Four-wheel drive  
 (b) Rear-wheel drive  
 (c) Front-wheel drive

(a) Four-wheel drive:



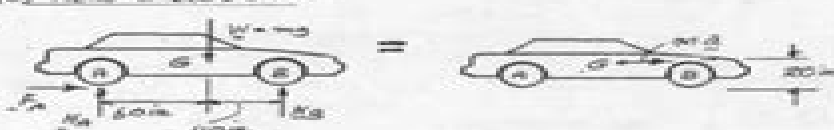
$$+ \uparrow \Sigma F_y = 0: N_A + N_B - W = 0 \quad N_A + N_B = W = mg$$

$$\text{Thus: } F_A + F_B = \mu_s N_A + \mu_s N_B = \mu_s (N_A + N_B) = \mu_s W = 0.80 mg$$

$$\pm \Sigma F_x = \Sigma (F_x)_{\text{eff}}: F_A + F_B = ma$$

$$0.80 mg = ma \quad a = 0.80g = 0.80(32.2 \text{ ft/s}^2) \quad a = 25.8 \text{ ft/s}^2 \rightarrow$$

(b) Rear-wheel drive:



$$+ \uparrow \Sigma M_G = \Sigma (M_G)_{\text{eff}}: (100 \text{ in})N_B - (100 \text{ in})N_A = -(20 \text{ in})ma$$

$$N_B = 0.4W + 0.2ma$$

$$\text{Thus: } F_B = \mu_s N_B = 0.80(0.4W + 0.2ma) = 0.32mg + 0.16ma$$

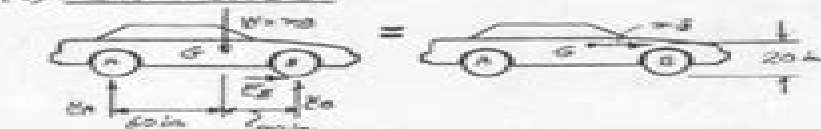
$$\pm \Sigma F_x = \Sigma (F_x)_{\text{eff}}: F_B = ma$$

$$0.32mg + 0.16ma = ma$$

$$0.32g = 0.84a$$

$$a = \frac{0.32}{0.84}(32.2 \text{ ft/s}^2) \quad a = 12.27 \text{ ft/s}^2 \rightarrow$$

(c) Front-wheel drive:



$$+ \uparrow \Sigma M_B = \Sigma (M_B)_{\text{eff}}: (100 \text{ in})N_B - (60 \text{ in})W = -(20 \text{ in})ma$$

$$N_B = 0.6W - 0.2ma$$

$$\text{Thus: } F_A = \mu_s N_B = 0.80(0.6W - 0.2ma) = 0.48mg - 0.16ma$$

$$\pm \Sigma F_x = \Sigma (F_x)_{\text{eff}}: F_A = ma$$

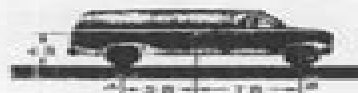
$$0.48mg - 0.16ma = ma$$

$$0.48g = 1.16a$$

$$a = \frac{0.48}{1.16}(32.2 \text{ ft/s}^2)$$

$$a = 13.32 \text{ ft/s}^2 \rightarrow$$

## 16.6



Given:  $v_0 = 30 \text{ ft/s}$   
 From Sample Problem 16.1  
 $\mu_s = 0.677$   
 Find: Distance required to stop if  
 (a) Rear-wheel brake fail to operate  
 (b) Front-wheel brake fail to operate

(a) If rear-wheel brake fail to operate



$$+ \uparrow \Sigma M_A = \Sigma (M_A)_{\text{eff}}: N_B(50 \text{ in}) - W(50 \text{ in}) = ma(4 \text{ ft})$$

$$N_B = \frac{5}{12}W + \frac{1}{3}\frac{W}{g}a$$

$$\pm \Sigma F_x = \Sigma (F_x)_{\text{eff}}: F_A = ma$$

$$\mu_s N_B = \frac{W}{g}a$$

$$0.677\left(\frac{5}{12}W + \frac{1}{3}\frac{W}{g}a\right) = \frac{W}{g}a$$

$$a = \frac{0.677\left(\frac{5}{12}\right)(32.2 \text{ ft/s}^2)}{1 - 0.723} \quad a = 12.27 \text{ ft/s}^2 \rightarrow$$

$$\text{UNIFORMLY ACCELERATED MOTION} \quad v^2 = v_0^2 + 2ax \quad 0 = (30 \text{ ft/s})^2 - 2(12.27 \text{ ft/s}^2)x$$

$$x = 36.9 \text{ ft}$$

(b) If front-wheel brake fail to operate



$$+ \uparrow \Sigma M_B = \Sigma (M_B)_{\text{eff}}: W(70 \text{ in}) - N_A(120 \text{ in}) = -ma(4 \text{ ft})$$

$$N_A = \frac{7}{12}W - \frac{1}{3}\frac{W}{g}a$$

$$\pm \Sigma F_x = \Sigma (F_x)_{\text{eff}}: F_B = ma$$

$$\mu_s N_A = \frac{W}{g}a$$

$$0.677\left(\frac{7}{12}W - \frac{1}{3}\frac{W}{g}a\right) = \frac{W}{g}a$$

$$a = \frac{0.677\left(\frac{7}{12}\right)(32.2 \text{ ft/s}^2)}{1 + 0.723} \quad a = 10.648 \text{ ft/s}^2 \rightarrow$$

$$\text{UNIFORMLY ACCELERATED MOTION} \quad v^2 = v_0^2 + 2ax \quad 0 = (30 \text{ ft/s})^2 - 2(10.648 \text{ ft/s}^2)x$$

$$x = 42.3 \text{ ft}$$

# Vector Mechanics For Engineers Dynamics Solutions Sixth

**Ferdinand Beer, E. Johnston, David  
Mazurek**



## **Vector Mechanics For Engineers Dynamics Solutions Sixth:**

**EBOOK: Vector Mechanics for Engineers: Dynamics (SI)** Ferdinand Beer, E. Johnston, Phillip Cornwell, 2013-04-16  
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**Ebook: Vector Mechanics Engineering: Dynamics SI** BEER, 2010-12-16 Ebook Vector Mechanics Engineering Dynamics SI Vector Mechanics for Engineers: Text  
Ferdinand Pierre Beer, Elwood Russell Johnston, 1997 *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](http://www.wiley.com/college/karnopp)

*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

*EBOOK: Vector Mechanics for Engineers: Statics (SI units)* Ferdinand Beer, E. Johnston, David Mazurek, 2012-10-16

**Target Audience** This text is designed for the first course in Statics offered in the sophomore year

**Overview** The main objective of a first course in mechanics should be to develop in the engineering student the ability to analyze any problem in a simple and logical manner and to apply to its solution a few well understood basic principles This text is designed to help the instructor achieve this goal Vector analysis is introduced early in the text and is used in the presentation and discussion of the fundamental principles of mechanics Vector methods are also used to solve many problems particularly three dimensional problems where these techniques result in a simpler and more concise solution The emphasis in this text however remains on the correct understanding of the principles of mechanics and on their application to the solution of engineering problems and vector analysis is presented chiefly as a convenient tool In order to achieve the goal of being able to analyze mechanics problems the text employs the following pedagogical strategy Practical applications are introduced early New concepts are introduced simply Fundamental principles are placed in simple contexts Students are given extensive practice through sample problems special sections entitled Solving Problems on Your Own extensive homework problem sets review problems at the end of each chapter and computer problems designed to be solved with computational software

**Resources Supporting This Textbook** Instructor's and Solutions Manual features typeset one per page solutions to the end of chapter problems It also features a number of tables designed to assist instructors in creating a schedule of assignments for their course The various topics covered in the text have been listed in Table I and a suggested number of periods to be spent on each topic has been indicated Table II prepares a brief description of all groups of problems Sample lesson schedules are shown in Tables III IV and V together with various alternative lists of assigned homework problems For additional resources related to users of this SI edition please visit <http://www.mheducation.asia/olc/beerjohnston>

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