

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:



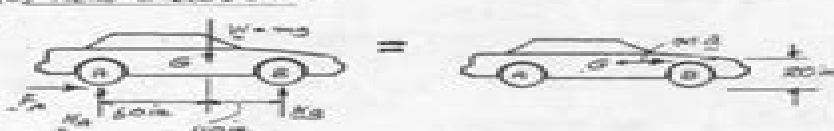
$$+ \uparrow \Sigma F_y = 0: N_A + N_B - W = 0 \quad N_A + N_B = W = mg$$

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

$$\pm \Sigma F_x = \Sigma (F_x)_{\text{eff}}: F_A + F_B = ma \quad 0.80 mg = ma$$

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

(b) REAR-WHEEL DRIVE:



$$+ \uparrow \Sigma M_G = \Sigma (M_G)_{\text{eff}}: (50 \text{ in})W - (100 \text{ in})N_B = -(20 \text{ in})ma$$

$$N_B = 0.4W + 0.2ma$$

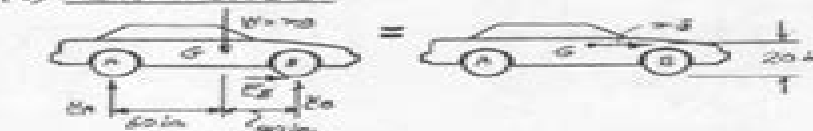
$$\text{Thus: } F_B = \mu_s N_B = 0.80(0.4W + 0.2ma) = 0.32mg + 0.16ma$$

$$\pm \Sigma F_x = \Sigma (F_x)_{\text{eff}}: F_B = ma \quad 0.32mg + 0.16ma = ma$$

$$0.32g = 0.84a$$

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

(c) FRONT-WHEEL DRIVE:



$$+ \uparrow \Sigma M_B = \Sigma (M_B)_{\text{eff}}: (100 \text{ in})N_A - (50 \text{ in})W = -(20 \text{ in})ma$$

$$N_A = 0.5W - 0.2ma$$

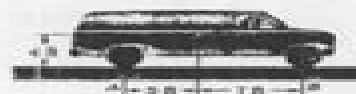
$$\text{Thus: } F_A = \mu_s N_A = 0.80(0.5W - 0.2ma) = 0.40mg - 0.16ma$$

$$\pm \Sigma F_x = \Sigma (F_x)_{\text{eff}}: F_A = ma \quad 0.40mg - 0.16ma = ma$$

$$0.40g = 1.16a$$

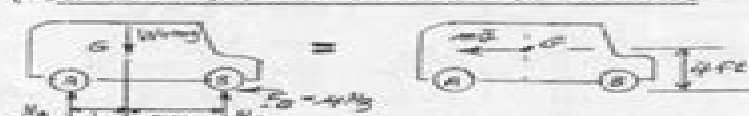
$$a = \frac{0.40}{1.16}(32.2 \text{ ft/s}^2) \quad a = 13.32 \text{ ft/s}^2 \rightarrow$$

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 BRAKES FAIL TO OPERATE



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

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

$$\pm \Sigma F_x = \Sigma (F_x)_{\text{eff}}: F_A = ma \quad \mu_s N_B = \frac{W}{3}a$$

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

$$a = \frac{0.677\left(\frac{5}{12}\right)(32.2 \text{ ft/s}^2)}{1 - 0.223} \quad a = 12.27 \text{ ft/s}^2 \rightarrow$$

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

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

(b) IF FRONT-WHEEL BRAKE FAIL TO OPERATE



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

$$N_A = \frac{3}{12}W - \frac{1}{3}ma$$

$$\pm \Sigma F_x = \Sigma (F_x)_{\text{eff}}: F_B = ma \quad \mu_s N_A = \frac{W}{3}a$$

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

$$a = \frac{0.677\left(\frac{3}{12}\right)(32.2 \text{ ft/s}^2)}{1 + 0.223} \quad a = 10.648 \text{ ft/s}^2 \rightarrow$$

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

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

Vector Mechanics For Engineers Dynamics 9th Chapter 16 Solutions

Benson H. Tongue, Daniel T. Kawano



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Engineering Mechanics Arshad Noor Siddiquee, Zahid A. Khan, Pankul Goel, 2018-05-03 This comprehensive and self contained textbook will help students in acquiring an understanding of fundamental concepts and applications of engineering mechanics With basic prior knowledge the readers are guided through important concepts of engineering mechanics such as free body diagrams principles of the transmissibility of forces Coulomb s law of friction analysis of forces in members of truss and rectilinear motion in horizontal direction Important theorems including Lami s theorem Varignon s theorem parallel axis theorem and perpendicular axis theorem are discussed in a step by step manner for better clarity Applications of ladder friction wedge friction screw friction and belt friction are discussed in detail The textbook is primarily written for undergraduate engineering students in India Numerous theoretical questions unsolved numerical problems and solved problems are included throughout the text to develop a clear understanding of the key principles of engineering mechanics This text is the ideal resource for first year engineering undergraduates taking an introductory single semester course in engineering mechanics Engineering Mechanics R. C. Hibbeler, 2010 Text and illustrations on lining papers *Applied Mechanics With Solidworks* Godfrey C Onwubolu, 2014-12-23 Applied Mechanics with SolidWorks aims to assist students designers engineers and professionals interested in using SolidWorks to solve practical engineering mechanics problems It utilizes CAD software SolidWorks based to teach applied mechanics SolidWorks here is presented as an alternative tool for solving statics and dynamics problems in applied mechanics courses Readers can follow the steps described in each chapter to model parts and analyze them A significant number of pictorial descriptions have been included to guide users through each stage making it easy for readers to work through the text on their own Instructional support videos showing the motions and results of the dynamical systems being analyzed and SolidWorks files for all problems solved are available to lecturers and instructors for free download **Vector Mechanics for Engineers: Text** Ferdinand Pierre Beer, Elwood Russell Johnston, 1997 **Engineering Mechanics** Benson H. Tongue, Daniel T. Kawano, 2020-09-29 Dynamics can be a major frustration for those students who don t relate to the logic behind the material and this includes many of them Engineering Mechanics Dynamics meets their needs by combining rigor with user friendliness The presentation in this text is very personalized giving students the sense that they are having a one on one discussion with the authors This minimizes the air of mystery that a more austere presentation can engender and aids immensely in the students ability to retain and apply the material The authors do not skimp on rigor but at the same time work tirelessly to make the material accessible and as far as possible fun to learn 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

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