

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:



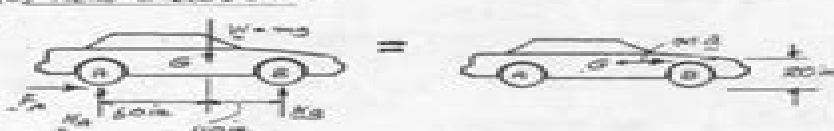
$$+ \uparrow \Sigma F_y = 0: N_A + N_B - W = 0 \quad N_A + N_B = W = mg$$

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

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

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

(b) REAR-WHEEL DRIVE:



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

$$N_B = 0.4W + 0.2ma$$

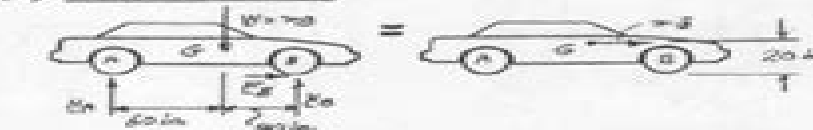
$$\text{Thus: } F_B = \mu_s N_B = 0.80(0.4W + 0.2ma) = 0.32mg + 0.16ma$$

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

$$0.32g = 0.84a$$

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

(c) FRONT-WHEEL DRIVE:



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

$$N_A = 0.5W - 0.2ma$$

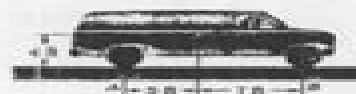
$$\text{Thus: } F_A = \mu_s N_A = 0.80(0.5W - 0.2ma) = 0.40mg - 0.16ma$$

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

$$0.40g = 1.16a$$

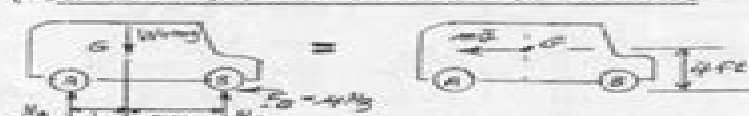
$$a = \frac{0.40}{1.16}(32.2 \text{ ft/s}^2) \quad a = 13.32 \text{ ft/s}^2 \rightarrow$$

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



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

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

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

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

$$a = \frac{0.677\left(\frac{5}{12}\right)(32.2 \text{ ft/s}^2)}{1 - 0.523} \quad a = 12.27 \text{ ft/s}^2 \rightarrow$$

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

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

(b) IF FRONT-WHEEL BRAKE FAIL TO OPERATE



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

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

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

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

$$a = \frac{0.677\left(\frac{3}{12}\right)(32.2 \text{ ft/s}^2)}{1 + 0.523} \quad a = 10.648 \text{ ft/s}^2 \rightarrow$$

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

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

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 - The Rise of Digital Reading Vector Mechanics For Engineers Dynamics 9th Chapter 16 Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Vector Mechanics For Engineers Dynamics 9th Chapter 16 Solutions
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Vector Mechanics For Engineers Dynamics 9th Chapter 16 Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Vector Mechanics For Engineers Dynamics 9th Chapter 16 Solutions
 - Personalized Recommendations
 - Vector Mechanics For Engineers Dynamics 9th Chapter 16 Solutions User Reviews and Ratings
 - Vector Mechanics For Engineers Dynamics 9th Chapter 16 Solutions and Bestseller Lists
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 - Vector Mechanics For Engineers Dynamics 9th Chapter 16 Solutions Budget-Friendly Options
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 - ePub, PDF, MOBI, and More
 - Vector Mechanics For Engineers Dynamics 9th Chapter 16 Solutions Compatibility with Devices
 - Vector Mechanics For Engineers Dynamics 9th Chapter 16 Solutions Enhanced eBook Features
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 - Adjustable Fonts and Text Sizes of Vector Mechanics For Engineers Dynamics 9th Chapter 16 Solutions
 - Highlighting and Note-Taking Vector Mechanics For Engineers Dynamics 9th Chapter 16 Solutions
 - Interactive Elements Vector Mechanics For Engineers Dynamics 9th Chapter 16 Solutions
 8. Staying Engaged with Vector Mechanics For Engineers Dynamics 9th Chapter 16 Solutions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Vector Mechanics For Engineers Dynamics 9th Chapter 16 Solutions
 9. Balancing eBooks and Physical Books Vector Mechanics For Engineers Dynamics 9th Chapter 16 Solutions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Vector Mechanics For Engineers Dynamics 9th Chapter 16 Solutions
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Vector Mechanics For Engineers Dynamics 9th Chapter 16 Solutions
 - Setting Reading Goals Vector Mechanics For Engineers Dynamics 9th Chapter 16 Solutions
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Vector Mechanics For Engineers Dynamics 9th Chapter 16 Solutions
 - Fact-Checking eBook Content of Vector Mechanics For Engineers Dynamics 9th Chapter 16 Solutions
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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