

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:



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

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

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

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

(b) REAR-WHEEL DRIVE:



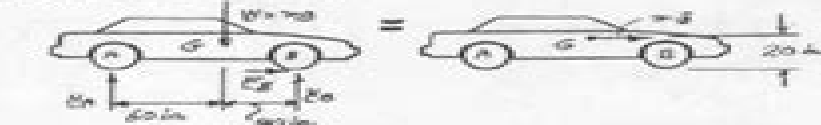
$$+ \uparrow \Sigma M_G = \Sigma (M_G)_{\text{eff}}: (50 \text{ in})W - (50 \text{ in})N_B = -(20 \text{ in})ma$$

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

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

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

(c) FRONT-WHEEL DRIVE:



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

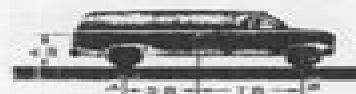
$$\text{Thus: } F_B = \mu_s N_B = 0.80(2.6W - 0.2ma) = 0.48mg - 0.16ma$$

$$\pm \Sigma F_x = \Sigma (F_x)_{\text{eff}}: F_B = ma \quad 0.48mg - 0.16ma = ma$$

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

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

16.6



Given: $\bar{v}_0 = 30 \text{ ft/s}$
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



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

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

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

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

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

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

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

(b) IF FRONT-WHEEL BRAKE FAIL TO OPERATE



$$+ \uparrow \Sigma M_B = \Sigma (M_B)_{\text{eff}}: W(7 \text{ ft}) - N_A(12 \text{ ft}) = -a(2 \text{ ft})$$

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

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

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

$$\bar{a} = \frac{0.677\left(\frac{7}{12}\right)(32.2 \text{ ft/s}^2)}{1 + 0.223} \quad \bar{a} = 10.648 \text{ ft/s}^2 \rightarrow$$

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

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

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Dong-Sheng Jeng



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