

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



$\Sigma F_x = ma_x$: $-4F = 1500(-7.72)$
 $F = 2810 \text{ N}$

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:
 $\Sigma F_x = 0$: $F - 50(9.81) \sin 15^\circ = 0$
 $F = 127.0 \text{ N}$

$F_{\max} = \mu_s N = 0.2(474) = 94.8 \text{ N} < F$: 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:
 $\Sigma F_y = 0$: $150 + F - 50(9.81) \sin 15^\circ = 0$
 $F = -23.0 \text{ N}$, $|F| < F_{\max}$ so no motion: $a = 0$

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

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

$y = v_0 t + \frac{1}{2} a t^2$: $0 = 30 - 18.58 t$, $t = 1.615 \text{ sec}$
 $v^2 = v_0^2 + 2a(s - s_0)$: $0^2 = 30^2 + 2(-18.58)d$
 $d = 24.2 \text{ ft}$

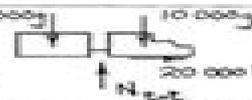
$v^2 = v_0^2 + 2a(s - s_0)$: $15^2 = 30^2 + 2(-18.58)d'$
 $d' = 18.17 \text{ ft}$

3/4 $300,000 (9.81) \text{ N}$
 $\Sigma F_x = ma_x$:
 $3(240,000) - 300,000(9.81) \sin \frac{1}{2}^\circ = 300,000 a_x$
 $a_x = 2.31 \text{ m/s}^2$
 $v^2 = 2a_x s$: $\left(\frac{220}{3.6}\right)^2 = 2(2.31)s$, $s_x = 807 \text{ m}$



$\Sigma F_x = ma_x$:
 $3(240,000) + 300,000(9.81) \sin \frac{1}{2}^\circ = 300,000 a_x$
 $a_x = 2.41 \text{ m/s}^2$
 $v^2 = 2a_x s$: $\left(\frac{220}{3.6}\right)^2 = 2(2.41)s$, $s_x = 751 \text{ m}$

3/5 For entire unit: $20,000 \text{ kg}$ $10,000 \text{ kg}$
 $\Sigma F = ma$: $20,000 = 30,000 a$
 $a = 0.667 \text{ m/s}^2$



For trailer alone, $T = 20,000(0.667) = 13,330 \text{ N}$
 or $T = 13.33 \text{ kN}$

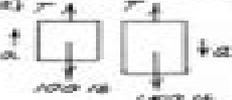


3/6 $\Sigma F_x = ma_x$: $mg \sin 40^\circ - \mu_k mg \cos 40^\circ = ma$
 $a = 9.81(\sin 40^\circ - \mu_k \cos 40^\circ) = 6.31 - 7.51 \mu_k$

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



3/7 $\Sigma F = ma$; $T - 100 = \frac{100}{32.2} a$
 (a) $T \uparrow$ $T \uparrow$
 $150 - T = \frac{150}{32.2} a$
 $50 - \frac{100}{32.2} a = \frac{150}{32.2} a$, $a = \frac{50 \cdot 32.2}{250} = 6.44 \frac{\text{ft}}{\text{sec}^2}$



(b) $150 - 100 = \frac{100}{32.2} a$, $a = \frac{50 \cdot 32.2}{100} = 16.10 \frac{\text{ft}}{\text{sec}^2}$



Meriam Dynamics Solutions Chapter 3

James L. Meriam



Meriam Dynamics Solutions Chapter 3:

Meriam Dynamics Solutions Chapter 3: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the fascinating narratives that have enthralled audiences this year. Meriam Dynamics Solutions Chapter 3 : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papan, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and suspenseful novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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