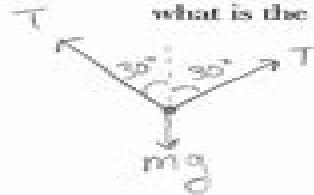


6. Tarzan has a mass of 75 kg and swings from vine to vine. As Tarzan grabs a new vine, both vines make an angle of 30° with the vertical. In such a condition of static equilibrium, what is the net force on the vine?



$$\Sigma F = ma = 0 \text{ N}$$

7. A car with a weight of 3000 N is accelerated across a level surface at 8.5 m/s^2 . What is the net force acting on the car?

$$\Sigma F = ma = \left(\frac{3000}{9.8}\right)(8.5) = \underline{2600 \text{ N}}$$

Chapter 5-6: Momentum & Energy

8. A 150g baseball reaches a batter with a speed of 25 m/s. After it has been struck, it leaves the bat at 35 m/s in the opposite direction. If the ball was in contact with the bat for .001 s, find the average force exerted on it during this period.

$$F = \frac{\Delta p}{t} = \frac{m(V_f - V_i)}{t} = \frac{(0.150 \text{ kg})(35 \text{ m/s} - -25 \text{ m/s})}{0.001} = \underline{9,000 \text{ N}}$$

9. A 30 kg girl who is running at 3 m/s jumps on a stationary 10 kg sled on a frozen lake. How fast does the sled then move?



$$m_g V_{g_i} + m_s V_{s_i} = (m_g + m_s) V_f$$

$$(30)(3) + 0 = (40) V_f$$

$$V_f = \underline{2.25 \text{ m/s} \approx 2 \text{ m/s}}$$

10. A 0.500kg bullet traveling at 300 m/s hits a 5 kg block of wood and becomes imbedded in the block. The block then slides without friction into a spring. If the spring is compressed .25 m, calculate its spring constant.

$$P_i = P_f$$

$$(0.5)(300) + 0 = (5.5) V_f$$

$$V_f = \underline{27.3 \text{ m/s}}$$

$$KE = PE_s$$

$$\frac{1}{2} m v^2 = \frac{1}{2} k x^2$$

$$\frac{1}{2} (5.5) (27.3)^2 = \frac{1}{2} k (.25)^2$$

$$k = \underline{65455 \approx 70,000 \text{ N/m}}$$

11. A 0.5 kg stone moving north at 4 m/s collides with a 4 kg lump of clay moving west at 1 m/s. The stone becomes embedded in the clay. What is the velocity of the composite body after the collision?

$$x\text{-dir}$$

$$(4)(1) = (4.5) V_x$$

$$V_x = \underline{.889 \text{ m/s}}$$

$$y\text{-dir}$$

$$(0.5)(4) = (4.5) V_y$$

$$V_y = \underline{.444 \text{ m/s}}$$

$$V^2 = .444^2 + .889^2$$

$$V = \underline{0.99 \text{ m/s} \approx 1 \text{ m/s}}$$

12. How much work is done on a 50 N rock that you lift 10 m?

$$W = F \times d = 50(10) = \underline{500 \text{ J}}$$

13. A diver who weighs 500 N steps off a diving board that is 10 m above the water. The diver hits the water with kinetic energy equal to

$$PE_g = KE$$

$$mg \cdot h = KE$$

$$500(10) = KE = \underline{5,000}$$



Answers Key Energy Machines Problems

Clemens Wendtner



Answers Key Energy Machines Problems:

Proceedings of the Third ICMDs'24: Machine Learning, Inverse Problems and Related Fields Amine Laghrib, Abdelghani Ghazdali, 2025-06-11 This book offers innovative insights into the integration of machine learning and inverse problems showcasing cutting edge methodologies that enhance computational efficiency and accuracy By leveraging artificial intelligence optimization techniques and high performance computing it addresses complex challenges across various scientific and industrial domains The contributions featured in this book encompass theoretical advancements and practical applications highlighting diverse topics such as data driven approaches uncertainty quantification and algorithmic innovations This interdisciplinary collection is designed for researchers practitioners and students interested in the transformative potential of informatics and computational sciences By presenting meticulously reviewed papers from the Third International Conference on Mathematical and Computational Sciences ICMDs 2024 this issue serves as a valuable resource for fostering further research and development inspiring new approaches to solving pressing problems through advanced computational methods

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