

Chapter 6 rev F

Show all the steps and work: $g = -9.81 \text{ m/s}^2$

1. A 12.0 kg box is accelerated across the floor by a horizontal force for 0.550 m and reaches a velocity of 4.20 m/s. What is the net force applied to the box if μ is .333?

2. A 7.50 kg box is pulled by a rope with a force of 20.0 N at 25° above the horizontal. What is its acceleration if μ is .209?