

1. What is the distance between a 128 kg object and a 136 kg object if the gravitational force of attraction between them is 6.582×10^{-10} N?

$$6.582 \times 10^{-10} = \frac{G(128)(136)}{r^2}$$

$$r^2 = \frac{G(128)(136)}{6.582 \times 10^{-10}}$$

$$r^2 = 1764.07$$

$$r = 42 \text{ m}$$

2. The force of gravity between two objects is 1200 N when the objects are 60 m apart. Find the force of gravity between the objects when they are 480 m apart.

Inverse square law:

Objects further apart, $F_g \downarrow$

$480 \div 60 = 8 \times$ further apart, so F_g is $8^2 = 64 \times$ smaller

$$1200 \div 64 = 18.8 \text{ N}$$

3. Two students are on a skateboards and push away from each other. A 48 kg student accelerates away at 2.6 m/s^2 . Find the acceleration of the other student if their mass is 32 kg. Action-reaction forces

$$F_{\text{net}} = ma$$

$$F_{\text{net}} = 48(2.6)$$

$$F_{\text{net}} = 124.8 \text{ N}$$

F_{net} is the same
for both students

$$F_{\text{net}} = ma$$

$$124.8 = 32a$$

$$a = 3.9 \text{ m/s}^2$$

4. A 42.0 N force is applied to a 6.00 kg block but it only accelerates at 5.50 m/s^2 . Determine both the force and the coefficient of friction.



$$F_{\text{net}} = ma$$

$$42 - F_f = 6(5.5)$$

$$42 - F_f = 33$$

$$F_f = 9.0 \text{ N}$$

$$F_f = \mu F_n$$

$$9.0 = \mu(58.8)$$

$$\mu = 0.153$$

5. A go-cart, traveling at 65 km/h , skids to a stop. If the coefficient of friction between the tires and the asphalt is 0.59, how far does the go-cart skid?



no forwards
force!

$$F_{\text{net}} = ma$$

$$F_f = ma$$

$$\mu F_n = ma$$

$$\mu mg = ma$$

$$\mu g = a$$

$$0.59(9.8) = a$$

$$a = 5.782$$

$$v_i = 18.06$$

$$v_f = 0$$

$$d = ?$$

$$a = -5.782$$

$$t = x$$

$$v_f^2 - v_i^2 = 2ad$$

$$d = 28.2 \text{ m}$$

Holt Physics Chapter 18 Answers

Attilio Rigamonti, Pietro Carretta



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and mechanical processes that unfold during cementing and subsequent well service and which can affect the well integrity Focusing on the underlying physics it concisely presents the central concepts of well cementing The authors discuss the displacement of different fluids in the annulus the mechanical stability of cement subject to varying downhole temperature pressure and in situ stresses and the impact of defects on cement integrity under different mechanical and thermal loads over the course of the well s lifetime The book identifies knowledge gaps and unresolved issues and proposes new directions for future research and development The book is a valuable resource for practising engineers in the oil and gas industry academic and industrial researchers involved in oil and gas engineering and to graduate students within this same sector

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