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30. $1 \frac{V}{nh} = \frac{200nd^3}{400f(0.333)f} = \frac{27f^3}{1yd^3} = 40.5f$

31. $V = lwh = r^2h = 8.00m \cdot 8.00m \cdot 6.00m = 2.50m^3 = 6.00m^3 = 2660m^3$

32. $V = r^2h = r^2h = 25.0m^2 \cdot 60.0m = 10.0cm^2 \cdot 60.0m = 99,000cm^3$

Chapter 2 Review Questions

1. c 2. b 3. a 4. (1) To find the volume of liquid storage tanks, (2) To determine the amount of concrete needed for a driveway, 5. As a shorthand way to designate different measured quantities of the same type, 6. Most mistakes are made in problem solving by missing needed information or misinterpreting the information given, 7. Making a sketch helps visualize what is happening in the problem, 8. The basic equation, 9. The working equation is found by solving the basic equation for the unknown quantity, 10. Carrying the units through a problem shows whether the answer is the kind expected, 11. Making an estimate of the correct answer shows whether the solution is reasonable.

Chapter 2 Review Problems

1. (a) $m = \frac{F}{a}$ (b) $a = \frac{F}{m}$ 2. $h = \frac{v^2}{2g}$ 3. $v_f = \frac{2x}{t}$ 4. $v = \sqrt{\frac{2KE}{m}}$

5. $b = P - a - c = 36ft - 12ft - 6ft = 18ft$

6. $a = 2 \frac{A}{b} = 2 \frac{210m^2}{16.0m} = 12.0m$ 7. $x = \sqrt{\frac{A}{2}} = 2.19m$

8. $A = \frac{1}{2}bh = \frac{1}{2}(12.2cm)(20.0cm) = 122cm^2$ 9. $h = \frac{3V}{r^2} = \frac{3(314cm^3)}{(5.00cm)^2} = 12.0cm$

10. $c = \sqrt[3]{D^3} = \sqrt[3]{(4.6mm)^3} = 9.80mm = 42.3mm$

11. $A = 2rh = 2(7.20cm)(13.4cm) = 606cm^2$

12. $\frac{400cm}{6.0cm} = 2(14.0cm) = 2$ 13. $r = \sqrt{\frac{V}{h}} = \sqrt{\frac{2100m^3}{17.0m}} = 6.27m$

14. $h = \frac{2A}{b} = \frac{2(88.6m^2)}{12.3m} = 14.4m$

15. $V = V_1 + V_2 = (9.0cm \cdot 6.0cm \cdot 12cm) + (6.0cm \cdot 3.0cm \cdot 12cm) = 430cm^3$

16. $A = A_1 + A_2 = (40.0cm \cdot 120cm) + (10.0cm \cdot 12.0cm) = 4680m^2$

Chapter 2 Applied Concepts

1. $A_{propeller} A_{blade} I_{prop} W_{prop} I_{blade} W_{blade} = 100(200)h = 35(7)(80.0)h = 17,200h^2$
 $\frac{55000ft^2}{17200h} = \frac{50026ft^2}{262h}$

2. $V = h = l = 8.00(100)(32.0) = 25600ft^3$ $\frac{25600ft^3 \cdot 1min}{20.0min} = \frac{2.13ft^3}{60sec}$

3. $V_{total} = V_{top} + V_{bottom} = 100m \cdot 8.00m \cdot 240m + 600m \cdot 1.00m \cdot 240m = 1.00m \cdot 8007.20m = 5200m^3$
 $V_{total} = 15400m^3 = 2.91$

Holt Physics **Problem 71**

GRAVITATIONAL FORCE

PROBLEM

The sun has a mass of $2.0 \times 10^{30} \text{ kg}$ and a radius of $7.0 \times 10^8 \text{ km}$. What mass must be located at the sun's surface for a gravitational force of 478 N to exist between the mass and the sun?

SOLUTION

Given: $m_1 = 2.0 \times 10^{30} \text{ kg}$
 $r = 7.0 \times 10^8 \text{ km} = 7.0 \times 10^8 \text{ m}$
 $G = 6.673 \times 10^{-11} \text{ Nm}^2/\text{kg}^2$
 $F_g = 478 \text{ N}$

Unknown: $m_2 = ?$

Use Newton's universal law of gravitation, and rearrange it to solve for the second mass.

$$F_g = G \frac{m_1 m_2}{r^2}$$

$$m_2 = \frac{F_g r^2}{G m_1} = \frac{478 \text{ N} (7.0 \times 10^8 \text{ m})^2}{(6.673 \times 10^{-11} \frac{\text{Nm}^2}{\text{kg}^2}) (2.0 \times 10^{30} \text{ kg})}$$

$$m_2 = 1.7 \text{ kg}$$

ADDITIONAL PRACTICE

1. Deimos, a satellite of Mars, has an average radius of 6.3 km . If the gravitational force between Deimos and a 3.0 kg rock on its surface is $2.5 \times 10^{-2} \text{ N}$, what is the mass of Deimos?
2. A $3.00 \times 10^3 \text{ kg}$ meteorite is on exhibit in New York City. Suppose this meteorite and another meteorite are separated by $1.17 \times 10^7 \text{ m}$ (a distance equal to Earth's average diameter). If the gravitational force between them is $1.66 \times 10^{-14} \text{ N}$, what is the mass of the second meteorite?
3. In 1999, a cube with a mass of $3.40 \times 10^4 \text{ kg}$ was hauled in Alabama. Suppose a rock acted 23.0 m from the cube. The gravitational force exerted between the rock and the cube was $3.0 \times 10^{-7} \text{ N}$. What was the rock's mass?
4. The largest diamond ever found has a mass of 621 g . If the force of gravitational attraction between this diamond and a person with a mass of 62.0 kg is $1.0 \times 10^{-12} \text{ N}$, what is the distance between them?

3. 2D Honeycomb Lattice. 10 points.

The 2D honeycomb lattice has translation vectors

$$\vec{a}_1 = a\left(\frac{\sqrt{3}}{2}, \frac{1}{2}\right), \quad \vec{a}_2 = a\left(\frac{\sqrt{3}}{2}, -\frac{1}{2}\right)$$

and a basis of two atoms at $\pm a\frac{\sqrt{3}}{2}\hat{y}$.

(a) Show that the distance between all nearest neighbors is the same, and give that distance.

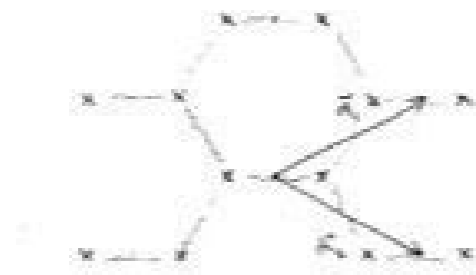
solutionThe atom at $a\frac{\sqrt{3}}{2}\hat{y}$ has three nearest neighbors at $a\left(-\frac{\sqrt{3}}{2}, 0\right)$, and $a\left(\frac{\sqrt{3}}{2} - \frac{1}{\sqrt{3}}\hat{y}\right)$. We need to show that the magnitude of vectors to the nearest neighbors are equal.

$$\left|a\left(\frac{1}{\sqrt{3}}\hat{x}\right)\right| = \left|a\left(-\frac{1}{\sqrt{3}}\hat{x}\right)\right| = \left|a\left(\frac{1}{\sqrt{3}}\hat{x} + \hat{y}\right)\right| = \frac{a}{\sqrt{3}}$$

and the other two neighbors

$$\begin{aligned} \left|a\left(\frac{1}{\sqrt{3}}\hat{x}\right)\right| - \left|a\left(\frac{\sqrt{3}}{2}\hat{y} - \frac{1}{2\sqrt{3}}\hat{x} - \frac{1}{2}\hat{y}\right)\right| &= a\left(\left(\frac{\sqrt{3}}{2} - \frac{1}{2\sqrt{3}}\right)^2 + \left(\frac{1}{2}\right)^2\right)^{1/2} \\ &= a\left(\frac{1}{2\sqrt{3}}\right)^2 + \frac{1}{4} &= a\left(\frac{1}{12} + \frac{1}{4}\right)^{1/2} = \frac{a}{\sqrt{3}} \end{aligned}$$

(b) Sketch the neighborhoods of two particles in the honeycomb lattice which are not identical (i.e. by translation symmetry) and describe the rotation that would be necessary to make them identical.

solutionThe neighborhood of one can be rotated into the other by a rotation of $\pi/3$ (60 degrees) about the atom.

Kenmore Ultra Wash Quiet Guard Standard Manual

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