

# Download File PDF Engineering Mechanics Dynamics 6th Edition Solutions Manual Meriam Amp

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#Diego Butler



so many fake sites. this is the first one which worked! Many thanks

Solution DYNAMICS Meriam & Kraige 6<sup>th</sup> Edition US version - Chapter 1

101] For a 100-lb sphere  
 $W = mg = 100 \text{ lb} = m(32.2 \text{ ft/s}^2)$   
 $m = \frac{100}{32.2} = 3.106 \text{ slugs}$   
 $W = mg = 3.106(32.2) = 100 \text{ lb}$   
 $W = mg = 3.106(9.81) = 30.5 \text{ N}$

102] Mass of iron sphere,  $m = PV$   
 $= (7200 \frac{\text{lb}}{\text{ft}^3})(\frac{4}{3}\pi(0.0625)^3) = 3.71 \text{ kg}$   
Force of metal attraction:  $\frac{Gm^2}{r^2}$   
Weight of each sphere:  $\frac{Gm_1m_2}{r^2}$   
 $\frac{Gm^2}{r^2} = \frac{Gm_1m_2}{r^2}$   
 $= 0.1 \frac{(9.81)(3.71)^2}{(0.125)^2}$   
 $= 1.228 \text{ (N)} \text{ or } \frac{1}{8} \text{ lb}$

103] For a 100-lb sphere  
 $W = mg = 100 \text{ lb} = m(32.2 \text{ ft/s}^2)$   
 $m = \frac{100}{32.2} = 3.106 \text{ slugs}$   
 $W = mg = 3.106(32.2) = 100 \text{ lb}$   
 $W = mg = 3.106(9.81) = 30.5 \text{ N}$

104]  $\vec{V}_1 = 10(\frac{3}{5}\vec{i} + \frac{4}{5}\vec{j})$ ,  $\vec{V}_2 = 10\vec{j}$   
 $\vec{V}_3 = 10(0.606\vec{i} + 0.806\vec{j})$ ,  $\vec{V}_4 = 10(0.806\vec{i} + 0.606\vec{j})$   
 $\vec{V}_5 = 10\vec{j}$   
 $\vec{V}_6 = 10(0.606\vec{i} + 0.806\vec{j})$   
 $\vec{V}_7 = 10(0.806\vec{i} + 0.606\vec{j})$   
 $\vec{V}_8 = 10\vec{j}$   
 $\vec{V}_9 = 10(0.606\vec{i} + 0.806\vec{j})$   
 $\vec{V}_{10} = 10(0.806\vec{i} + 0.606\vec{j})$   
 $\vec{V}_{11} = 10\vec{j}$   
 $\vec{V}_{12} = 10(0.606\vec{i} + 0.806\vec{j})$   
 $\vec{V}_{13} = 10(0.806\vec{i} + 0.606\vec{j})$   
 $\vec{V}_{14} = 10\vec{j}$   
 $\vec{V}_{15} = 10(0.606\vec{i} + 0.806\vec{j})$   
 $\vec{V}_{16} = 10(0.806\vec{i} + 0.606\vec{j})$   
 $\vec{V}_{17} = 10\vec{j}$   
 $\vec{V}_{18} = 10(0.606\vec{i} + 0.806\vec{j})$   
 $\vec{V}_{19} = 10(0.806\vec{i} + 0.606\vec{j})$   
 $\vec{V}_{20} = 10\vec{j}$

105] The weight of an average apple is  
 $W = mg = 0.41 \text{ N}$   
Mass in kg is  $m = \frac{W}{g} = \frac{0.41}{9.81} = 0.0418 \text{ kg}$   
Mass in kg is  $m = 0.0418 \text{ kg}$   
 $W = mg = 0.0418(9.81) = 0.41 \text{ N}$   
These apples weigh about 2 N each. That  
is the rule of 1 N each!

106] Mass of iron sphere,  $m = PV$   
 $= (7200 \frac{\text{lb}}{\text{ft}^3})(\frac{4}{3}\pi(0.0625)^3) = 3.71 \text{ kg}$   
Force of metal attraction:  $\frac{Gm^2}{r^2}$   
Weight of each sphere:  $\frac{Gm_1m_2}{r^2}$   
 $\frac{Gm^2}{r^2} = \frac{Gm_1m_2}{r^2}$   
 $= 0.1 \frac{(9.81)(3.71)^2}{(0.125)^2}$   
 $= 1.228 \text{ (N)} \text{ or } \frac{1}{8} \text{ lb}$

107]  $\vec{V}_1 = 10(\frac{3}{5}\vec{i} + \frac{4}{5}\vec{j})$ ,  $\vec{V}_2 = 10\vec{j}$   
 $\vec{V}_3 = 10(0.606\vec{i} + 0.806\vec{j})$ ,  $\vec{V}_4 = 10(0.806\vec{i} + 0.606\vec{j})$   
 $\vec{V}_5 = 10\vec{j}$   
 $\vec{V}_6 = 10(0.606\vec{i} + 0.806\vec{j})$   
 $\vec{V}_7 = 10(0.806\vec{i} + 0.606\vec{j})$   
 $\vec{V}_8 = 10\vec{j}$   
 $\vec{V}_9 = 10(0.606\vec{i} + 0.806\vec{j})$   
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 $\vec{V}_{18} = 10(0.606\vec{i} + 0.806\vec{j})$   
 $\vec{V}_{19} = 10(0.806\vec{i} + 0.606\vec{j})$   
 $\vec{V}_{20} = 10\vec{j}$

108]  $mg = 0.1 \text{ mg}$   
 $\frac{Gm^2}{r^2} = 0.1 \text{ mg}$   
Solve for  $r$ , the radius  $r = 2.16 \text{ m}$

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