

Download File PDF Meriam And Kraige Dynamics 6th Edition

#Jenny



Finally I get this ebook, thanks for all these I can get now!

#Rio



Cool! I'am really happy

#Markus Jensen



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#Che Salsa



My friends are so mad that they do not know how I have all the high quality ebook which they do not!

#Diego Butler



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

Solution DYNAMICS Meriam & Kraige 6th Edition US version / Chapter 1

101 $\vec{v}_1 = 10\left(\frac{3}{5}\vec{i} + \frac{4}{5}\vec{j}\right)$ $\vec{v}_2 = 7\vec{j}$
 $\vec{v}_3 = 10\cos 30^\circ\vec{i} + 10\sin 30^\circ\vec{j} = 8.66\vec{i} + 5\vec{j}$
 $\vec{v}_4 = 15\vec{i} + 2\vec{j}$
 $\vec{v}_5 = (2\vec{i} + \vec{j}) + (2\vec{i} + 3\vec{j}) = 4\vec{i} + 4\vec{j}$
 $\vec{v}_6 = (4\vec{i} + 4\vec{j}) + (2\vec{i} + 3\vec{j}) = 6\vec{i} + 7\vec{j}$
 $\vec{v}_7 = (3\vec{i} + 4\vec{j}) + (4\vec{i} + 4\vec{j}) = 7\vec{i} + 8\vec{j}$
 $\vec{v}_8 = (4\vec{i} + 4\vec{j}) + (7\vec{i} + 8\vec{j}) = 11\vec{i} + 12\vec{j}$
 $\vec{v}_9 = (11\vec{i} + 12\vec{j}) + (7\vec{i} + 8\vec{j}) = 18\vec{i} + 20\vec{j}$

102 The weight of an average apple is
 $W = \frac{1}{16} \text{ lb} = 0.0625 \text{ lb}$
 Mass in slugs is $m = \frac{W}{g} = \frac{0.0625}{32.2} = 0.001941 \text{ slug}$
 Mass in kg is $m = 0.001941 \text{ slug} \left(\frac{1.488 \text{ kg}}{1 \text{ slug}}\right) = 0.00288 \text{ kg}$
 Weight in N is $W = mg = 0.00288(9.81) = 0.0282 \text{ N}$
 These apples weigh about 2 N each. That's the rule of 2 N each!

103 Mass of steel spheres, $m = PV = (200 \frac{\text{lb}}{\text{ft}^3})\left(\frac{4}{3}\pi(0.0625)^3\right) = 3.78 \text{ lb}$
 Force of each attraction: $\frac{Gm^2}{r^2}$
 Weight of each sphere: $\frac{GmM}{r^2}$
 $\frac{Gm^2}{r^2} = \frac{GmM}{r^2}$, $r = 4\sqrt{\frac{M}{m}}$
 $r = 4\sqrt{\frac{200 \text{ lb/ft}^3}{3.78 \text{ lb}}}$

104 $F_A = \frac{GMm}{r^2}$, $r = 0.050 \text{ m}$ for all spheres
 $F_A = \frac{G(0.050 \text{ kg})^2}{(0.050 \text{ m})^2} = 0.000392 \text{ N}$
 $F_B = \frac{G(0.050 \text{ kg})^2}{(0.100 \text{ m})^2} = 0.000098 \text{ N}$
 $F_C = \frac{G(0.050 \text{ kg})^2}{(0.150 \text{ m})^2} = 0.000044 \text{ N}$
 $F_D = \frac{G(0.050 \text{ kg})^2}{(0.200 \text{ m})^2} = 0.000025 \text{ N}$
 $F_E = \frac{G(0.050 \text{ kg})^2}{(0.250 \text{ m})^2} = 0.000016 \text{ N}$
 $F_F = \frac{G(0.050 \text{ kg})^2}{(0.300 \text{ m})^2} = 0.000011 \text{ N}$
 $F_G = \frac{G(0.050 \text{ kg})^2}{(0.350 \text{ m})^2} = 0.000008 \text{ N}$
 $F_H = \frac{G(0.050 \text{ kg})^2}{(0.400 \text{ m})^2} = 0.000006 \text{ N}$
 $F_I = \frac{G(0.050 \text{ kg})^2}{(0.450 \text{ m})^2} = 0.000005 \text{ N}$
 $F_J = \frac{G(0.050 \text{ kg})^2}{(0.500 \text{ m})^2} = 0.000004 \text{ N}$

105 $\vec{v}_1 = 10\left(\frac{3}{5}\vec{i} + \frac{4}{5}\vec{j}\right)$ $\vec{v}_2 = 7\vec{j}$
 $\vec{v}_3 = 10\cos 30^\circ\vec{i} + 10\sin 30^\circ\vec{j} = 8.66\vec{i} + 5\vec{j}$
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 These apples weigh about 2 N each. That's the rule of 2 N each!

107 $m_1 = 0.1 \text{ kg}$, $m_2 = 0.2 \text{ kg}$
 $F = 0.6 \text{ N}$
 Solve for h to obtain $h = 2.15 \text{ m}$

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