

Chapter 7: Circular Motion & Gravity

14. A car is negotiating a flat curve of radius of 50.0 m with a speed of 20.0 m/s. The centripetal force provided by friction is 1.20×10^4 N. What is the mass of the car?
 $(1,500\text{kg}) \ r = 50\text{m}, \ v = 20\text{m/s}, \ F_f = 1.2 \times 10^4 \text{ N}$

$$\begin{aligned} F_f &= F_c \\ 1.2 \times 10^4 &= \frac{mv^2}{r} \\ 1.2 \times 10^4 &= \frac{m(20)^2}{50} \end{aligned} \quad \boxed{m = 1500 \text{ kg}}$$

15. A 0.50 kg mass is attached to the end of a 1.0 m string. The system is whirled in a horizontal circular path. If the maximum tension that the string can withstand is 350 N. What is the maximum speed of the mass if the string is not to break? (26.5 m/s)

$$\begin{aligned} F_c &= T \\ \frac{mv^2}{r} &= T \\ \frac{(0.5)v^2}{1.0} &= 350 \end{aligned} \quad \boxed{v = 26.5 \text{ m/s}}$$

16. What is the centripetal acceleration of a point on the perimeter of a bicycle wheel of diameter 70.0 cm when the bike is moving 8.0 m/s? (180 m/s²)

$$a_c = \frac{v^2}{r} = \frac{(8)^2}{(0.35)} = 18.3 \text{ m/s}^2 \approx 180 \text{ m/s}^2$$

$$r = .7 \div 2 = .35$$

17. A satellite is in a low circular orbit about the earth (i.e. it just skims the surface of the earth). How long does it take to make one revolution around the earth? (the mean radius of the earth is 6.38×10^6 m, mass of the Earth = 6.0×10^{24} kg) (5.061s)

$$\begin{aligned} \frac{F_g}{Gm_1m_2} &= \frac{F_c}{r^2} \\ \frac{Gm_1m_2}{r^2} &= \frac{m_14\pi^2r}{T^2} \end{aligned} \quad T^2 = \frac{4\pi^2r^3}{Gm_2} = \frac{4\pi^2(6.38 \times 10^6)^3}{(6.67 \times 10^{-11})(6.0 \times 10^{24})} \approx 2.96 \times 10^7$$

$$T = 5060 \text{ sec}$$

18. A ferris wheel rotating at 20.0 rad/s decelerates with a constant angular acceleration of -5.0 rad/s². How many revolutions does it rotate before coming to rest? (6.37 rev)

$$\omega_0 = 20 \text{ rad/s}$$

$$\alpha = -5 \text{ rad/s}^2$$

$$\theta = ?$$

$$\omega_f = 0$$

$$\omega_f = \omega_0 + \alpha\theta$$

$$0 = 20 + 2(-5)\theta$$

$$\begin{aligned} \theta &= 40 \text{ rad} \times \frac{1 \text{ rev}}{2\pi \text{ rad}} = 6.36 \text{ rad} \\ &\approx 6.4 \text{ rad} \end{aligned}$$

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James T. Shipman, Jerry D. Wilson

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