

Problem Solutions Chapter #8 Giancoli 6th Edition

• **Problem #8:**

QUESTION: A rotating merry-go-round makes one complete revolution in 4.0 seconds (a) What is the linear speed of a child seated 1.2 meter from the center? (b) What is her acceleration?

ANSWER: The linear or tangential velocity  $V = \omega R$  where  $R = 1.2$  m is the distance to the axis of rotation. The period of revolution is  $T = 4.0$  sec/cycle so the frequency  $f = 1/4$  cycles/sec = 0.25 Hertz and the angular frequency in radians per second is  $\omega = 2\pi f = 1.57$  Rad/s. The linear speed  $V = \omega R = 1.57$  Rad/s  $\times$  1.2 m = 1.9 m/s. The tangential acceleration is zero because it seems  $\omega$  is constant (and so the angular acceleration is zero). The radial acceleration is  $V_p = V^2/R = \omega^2 R = 2.96$  m/s<sup>2</sup> in the radial direction toward the center of the merry-go-round.

$$T = 4.0 \text{ s}$$

$$f = 1 / T$$

$$\omega = 2 \pi \cdot f$$

$$1.5708$$

$$R = 1.2 \text{ m}$$

$$V = \omega \cdot R$$

$$1.88496$$

$$a = v^2 / R$$

$$2.96088$$

• **Problem #9**

Calculate the angular velocity of the Earth (a) as it orbits the Sun and (b) about its axis.

ANSWER:  $T = 365$  days/cycle for the Earth going about the Sun.  $f = 1/T$  is the frequency in cycles/sec and  $\omega = 2\pi f$  is the angular frequency in Rad/sec and  $\omega = 1.2 \times 10^{-7}$  Rad/s.

$$T = 365 \cdot 24 \cdot 60 \cdot 60 \text{ s}$$

$$f = 1 / T$$

$$\omega = 2 \pi \cdot f$$

$$1.99228 \times 10^{-7}$$

PART B:  $T = 24$  hours per day and this corresponds to  $\omega = 7.27 \times 10^{-5}$  Rad/s.

$$T = 24 \cdot 60 \cdot 60 \text{ s}$$

$$f = 1 / T$$

$$\omega = 2 \pi \cdot f$$

$$0.0000727221$$

• **Problem #16**

An automobile engine slows down from 4500 rpm to 1200 rpm in 2.5 seconds. Calculate (a) its angular acceleration  $\alpha$  assuming it is constant.  $2\pi$  Rad = 1 Rev

$$\omega f = 1200 \cdot \pi \cdot (2 \pi \cdot \pi) \text{ s}$$

$$\omega 0 = 4500 \cdot \pi \cdot (2 \pi \cdot \pi) \text{ s}$$

$$t = 2.5 \text{ s}$$

$$\alpha = \frac{\omega f - \omega 0}{t}$$

$$-8292.8$$

The minus sign means there is a deceleration or slowing down.

Part (b) Calculate the total number of revolutions it makes in the time  $t = 2.5$  sec.

ANSWER:

# Giancoli Physics 6th Edition Chapter 8 Solutions

**Guillaume Favre**



**Giancoli Physics 6th Edition Chapter 8 Solutions:**

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web gerbang logika adalah penyusun elektronika digital yang setiap cara kerja rangkaian pada gerbang logika menggunakan prinsip aljabar boolean pada dasarnya dalam ilmu elektronik suatu masukan dan keluaran dibangun oleh yang namanya voltase atau arus voltase ini biasanya dihubungkan dengan sakelar

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web baca juga gerbang logika adalah rangkaian elektronika yang menggunakan sinyal digital sebagai masukan dan keluarannya apa yang membuat rangkaian disebut sebagai gerbang adalah bahwa setiap keluaran tergantung sepenuhnya pada sinyal yang diberikan pada masukan masukannya jika sinyal digital masukannya berubah maka sinyal keluarannya

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