#### 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 an 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 × 1.2 m = 1.9 m/s. The tangential acceleration is zero because it seems  $\omega$  is constant (and  $\alpha$  the angular acceleration is zero). The radial acceleration is  $V = V^2/R = 2.96$  m/s<sup>2</sup> in the radial direction toward the center of the merry-go-round.

T = 4.0; f = 1/T; w = 2 \* \* \* f 1.5708 R = 1.2; V = w \* R 1.88496 a = V<sup>2</sup>/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 is Rad/sec and  $\omega$ =1.2 × 10<sup>-2</sup> Rad/s.

T = 365. • 24 • 60 • 60.; E = 1 / T; w = 2 • x • f 1.99238 × 10<sup>-7</sup> PART B: T=24 hours per day and this corresponds to ω=7.27 × 10<sup>-5</sup> Rad/s. T = 24. • 60 • 60; E = 1 / T; w = 2 • x • 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

wf = 1200. • (2 • π); w0 = 4500. • (2 • π); t = 2.5; wf - w0 t - 8293.8

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

Part (b) Calculate the total number of revolutions is makes in the time t=2.5 sec. ANSWER:

# **Giancoli Chapter Answers**

Marcel A. Müller

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