Phys 2110-4 3/19/12

3/19/2012

Rotations Chap 10, Chap 11

Constant d:

 $W = W_0 + \lambda t$ $D = O_0 + W_0 t + \lambda \lambda t^2$

W=W2+22(0-0)

$$d = \frac{dW}{t}$$

$$d = \frac{377^{\frac{1}{3}}}{377^{\frac{1}{3}}}$$

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$$f(\omega + \omega) = 0$$

b) How many revolutions?
$$0 = \frac{1}{2}(\omega + \omega) + 0 = \frac{1}{2} \frac{$$

$$0.70$$
 $w = 3600 \text{ ym}$
 $= 377 \text{ yeld}$
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10.19 Many-go-voum2 starts rest accel's 0.010 rad/s2 for 145. a) How many voils during that times? b) Average angular spead? $0 = 22t^2 + w_0 t = 0.98 \text{ rad}$ = 0.156 rev 12 iranatics 1) y nam 1 c s why do thing rotate (Forus) but... Push at large r. F, r, Sin 0 = rFsin0

lorgue r/- sime Plus or minus CCW: + CW: -For now, it's scalor: Lor now, H's sunce.

Units?

= M.M.

Early

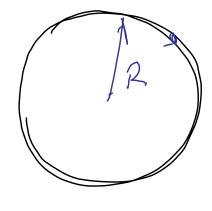
1 J = N.M

Later: Vector Mentoys Sng Fan for Rotations Heuristic derivation $ma_t = F_{sin}0$ $mrd = F_{sin}0$

Wmf px ~ my22 = r (5 in 0 $= (M_{\Lambda_2})$ Adup over 511 particles $\frac{1}{n_{et}} = \frac{1}{n_{et}} \frac{m_{i} r_{i}^{2} d}{m_{i} r_{i}^{2} d}$ $\frac{1}{n_{et}} = \frac{1}{n_{et}} \frac{m_{i} r_{i}^{2} d}{m_{i} r_{i}^{2} d}$

Smit? Moment on invertin Rotational inertia (Matrix!) what is it? Units:

Example T = [M x dx $\frac{1}{2} \frac{1}{2} \frac{M}{2} \left(\frac{L}{2}\right)^{2}$



110p

To MR