



Mon Oct 18 Session 23 Lect.

No office hour
Mon Oct 18 3:30-4:30 PM

Office Hour Wed Oct 20 3:30 PM - 4:30 PM

Wed Oct 20 Session 24 Exam II Review

Fri Oct 22 Session 25 Exam II


 University of Idaho Moment equations

$$\sum \vec{H}_G = I_G \vec{\alpha}$$

or

$$\sum \vec{H}_P = I_P \vec{\alpha} + m \vec{r}_{G/P} \times \vec{a}_P$$

Ex 17-52 HE $\alpha_G = 0??$



University of Idaho

Rectangular Coords: $\Sigma F_x = m(a_c)_x$, $\Sigma F_y = m(a_c)_y$

$$\vec{a}_c = (a_c)_x \vec{i} + (a_c)_y \vec{j}$$

Normal Tangential ~~to~~ Coordinates:

$$\Sigma F_n = m a_n = m \omega^2 r_c \quad a_n = r_c \omega^2$$

$$\Sigma F_t = m a_t = m \alpha r_c \quad a_t = \cancel{r_c} \alpha$$