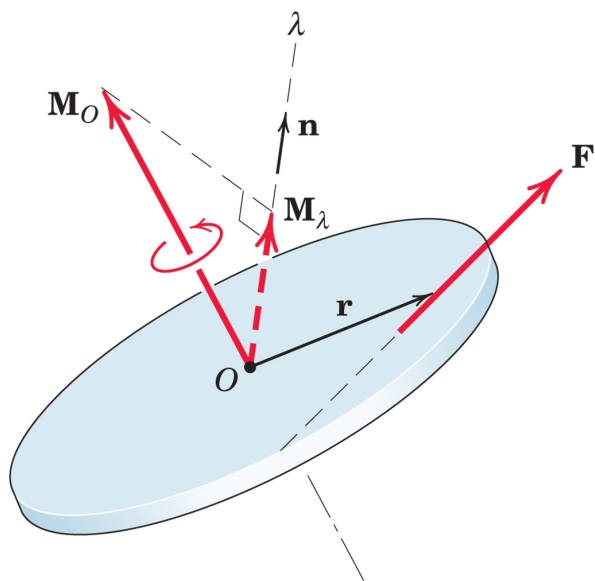


## ADDITIONAL NOTES FOR WEEK 5

### Moment about an axis



$$\mathbf{M}_\lambda = (\mathbf{r} \times \mathbf{F} \cdot \mathbf{n})\mathbf{n}$$

(2/16)

$$|\mathbf{M}_\lambda| = M_\lambda = \begin{vmatrix} r_x & r_y & r_z \\ F_x & F_y & F_z \\ \alpha & \beta & \gamma \end{vmatrix}$$

(2/17)

### Example

Given Problem 2/146 , compute the moment of the system about axis  $\mathbf{n} = 0.707\mathbf{j} + 0.707\mathbf{k}$  .

