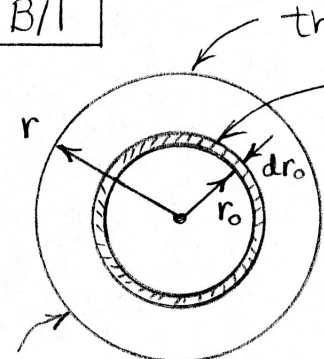


B/1



thickness (depth) = t

$$\begin{cases} dm = \rho dV = \rho 2\pi r_0 dr_0 t \\ dI = dm r_0^2 \end{cases}$$

$$= 2\pi \rho t r_0^3 dr_0$$

$$I = \int dI = \int_0^r 2\pi \rho t r_0^3 dr_0^3$$

$$= 2\pi \rho t \frac{r^4}{4} \left(\frac{m}{\pi r^2 t \rho} \right)$$

$$= \underline{\underline{\frac{1}{2} m r^2}}$$

$m = \pi r^2 t \rho$