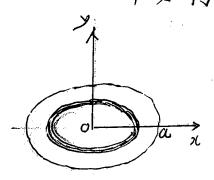
P.65.27 有一切分和样, 公别, 茨童州。计算研媒距离一端产物转动资量。

第:  $e = \frac{M}{\ell}$ , ds = dx  $J_y = \int_{-\frac{\ell}{2}}^{\frac{\ell}{2}} z^2 \cdot e^{s} ds = \frac{M}{\ell} \int_{-\frac{\ell}{2}}^{\frac{\ell}{2}} r^2 dx = \frac{M}{\ell} [\frac{x^3}{3}]_{-\frac{\ell}{2}}^{\frac{\ell}{2}}$   $= \frac{M}{\ell} \cdot \frac{1}{3} [\frac{y^3 \ell^3}{f^3} + \frac{\ell^3}{f^3}] = \frac{M}{\ell} \cdot \frac{64+1}{3 \times \ell^3} \frac{13n\ell^2}{f^5}$ 

P.165.28. 没有一均匀圆盘,半经为众,发量灯。

求定对于通过图心且5盘面垂直的\$由之转动搜量I。



$$dI = \gamma^{2} \cdot \rho_{0} \cdot 2\pi r dr = \frac{M}{\pi a^{2}} 2\pi r^{3} dr = \frac{2M}{a^{2}} \gamma^{3} dr$$

$$I = \int_{0}^{a} \frac{2M}{a^{2}} \gamma^{3} d\gamma = \frac{2M}{a^{2}} \left\{ \frac{\gamma^{4}}{4} \right\}_{0}^{a} = \frac{1}{2} M a^{2}.$$