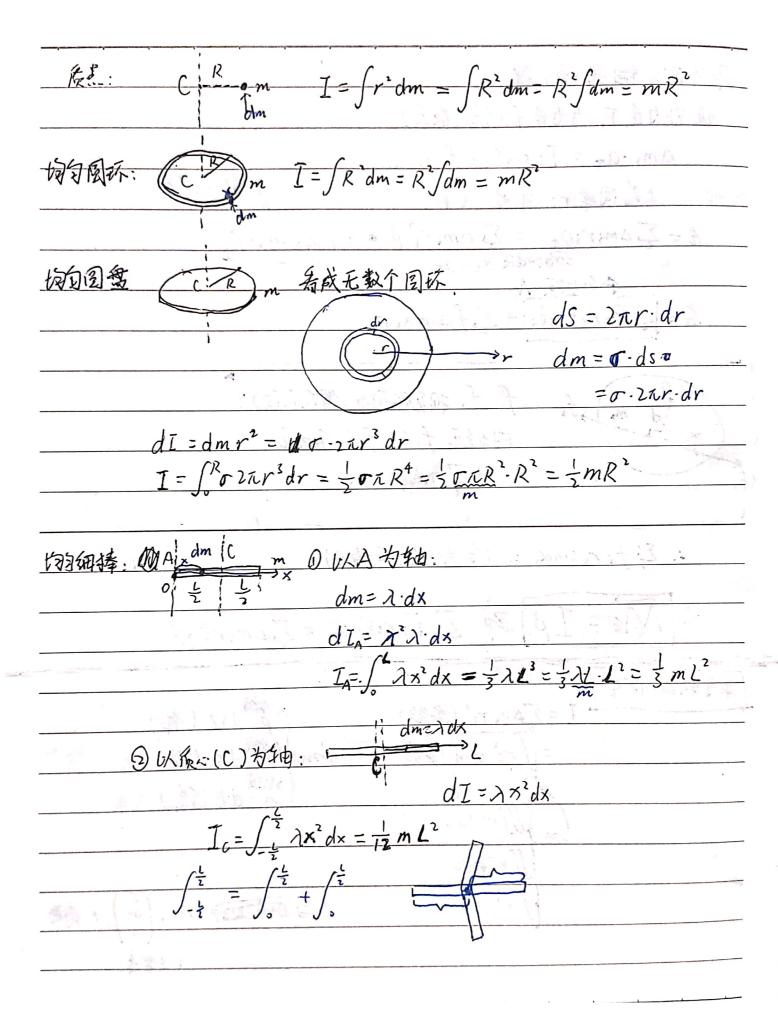
刚体转动定律
刚体:特殊的质点了,具有相对性
平动;刚体上所有质点运动都相同
转动:刚体上所有质点,都绕某一轴作半径不同作半径不同的圆腿动
34 M. 20 1 M. 20 1 M. 1 M. 1 M. 20 1 M
建轴铁油
Ju, 8-7- 12=rw=125,14w
$(\vec{v} = \vec{w} \times \vec{r})$
元素家的 () = Wx R
$\int_{\mathbb{R}^{n}} \mathbb{R}^{n} \left(\alpha_{2} = r \cdot \beta \right) = 0$
$-\frac{1}{2}$ $\alpha_n = \frac{1}{R} = \omega^2 R$
Strik: B = dw = constdw = Bdt - Sdw = fbdt
$\theta = \theta_0 + \omega_0 t + \frac{1}{2} \beta t^2 \iff \omega = \omega_0 + \beta t$
$\beta = \frac{dw}{dt} = \frac{d\theta}{dt} \cdot \frac{dw}{d\theta} = w \frac{dw}{d\theta} \implies \beta d\theta = w dw : \int_{w}^{w} w dw = \int_{0}^{\theta} \beta d\theta$
$i \frac{\partial}{\partial \theta} = \frac{\partial}{\partial \theta} = 2\beta (\theta - \theta_0)$
TIE M= Fi. sind. Ti W Mi = ri x Fi
△Fi 是在参考年旬里的分量,Yi 也是、

.

网体的定轴转动定律
设外力是 F, 内力是 f. (任一 辰点)
$\Delta m_i \cdot \alpha_{\tau} = F_i \sin \theta_i + f_i \sin \alpha_i$
上式同乘下;并对方求和。 1(转动)惯量)
toobote成 an = Bri
た= 豆Firisindi + こfisinairi
1 f, f, 扫互作用为(替大反向)(
Man 内がをfid ための!
(f. 包ZMpi=0
:. Efirisina; =0 (含内板恒为0)
April 2 miles
-: Mos= IB By Z. Firising; = Z(amiri) B
本子\$P\$ 22 10 10 10 10 10 10 10 10 10 10 10 10 10
$I = \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{j=1}^{n} \sum_{j=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{j=1}^{n}$
= [ridm (连续) dm= ord ds (面)
The de (SE)
∬r'•ds
「rild Is m. (o). r有色
(是要素)



无数个争 国盘人 中心会學状
质量分布不均匀.
do 治小病科。ds = dr·rd9
dm=o-rdr.do
$dI_{\theta} = \int \sigma r^{3} dr \cdot d\theta$ $(\sqrt{6}R^{3}) I_{\theta} = \int_{0}^{R} \sigma r^{3} dr \cdot d\theta = \frac{1}{4} (\sigma R^{2} d\theta) R^{2}$
(小弱形) $I_{\theta} = \int_{0}^{R} \sigma r^{3} dr \cdot d\theta = \frac{1}{4} (\sigma R^{2} d\theta) R^{2}$
do > 2n. I= - MR (图象)