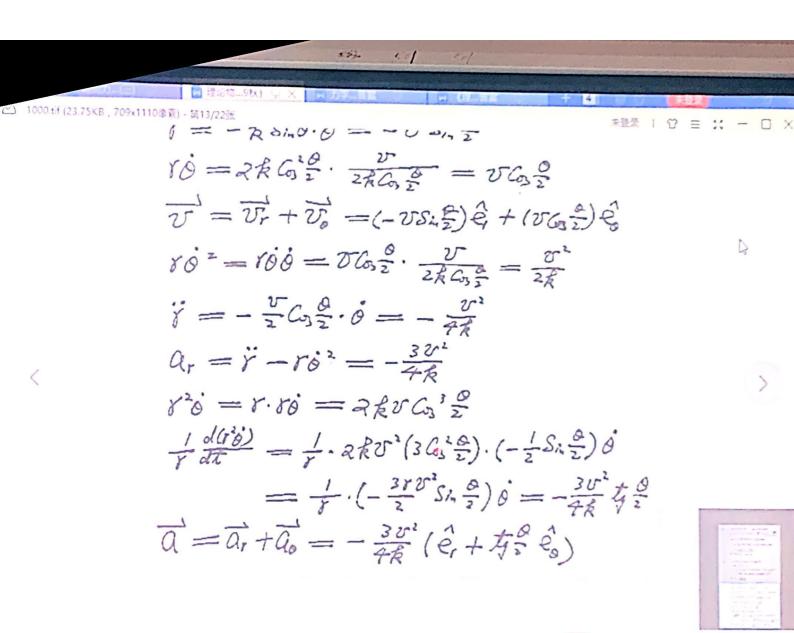


1.8. $Y = k(1 + C_0\theta) = 2kC_0^{\frac{1}{2}}$ $\dot{y} = -kS_{10}\dot{0}\dot{0}$ $\dot{y} = \dot{y}^2 + (\dot{y}\dot{0})^2 = k^2S_{10}\dot{0}\dot{0}^2 + k^2(1 + C_0\theta)^2\dot{0}^2$ $= k^2\dot{0}^2(2 + 2C_0\theta) = 4k^2\dot{0}^2C_0^{\frac{1}{2}}$ $\dot{y} = -kS_{10}\dot{0}\dot{0} = -VS_{10}\dot{0}^2$ $\dot{y} = -kS_{10}\dot{0}\dot{0} = -VS_{10}\dot{0}^2$ $\dot{y} = 2kC_0^{\frac{1}{2}}\dot{0}^2 + VC_0^{\frac{1}{2}}\dot{0}^2 + VC_0^{\frac{1}{2}}\dot{0}^2$ $\dot{y} = V\dot{y} + V\dot{y}\dot{0} = (-VS_{10}\dot{0}^2)\dot{0}^2 + (VC_0\dot{0}^2)\dot{0}^2$ $\dot{y} = V\dot{0}\dot{0} = VC_0\dot{0}^2 \cdot \frac{V}{2kC_0\dot{0}^2} = \frac{V^2}{2k}\dot{0}^2$ $\dot{y} = -\frac{V}{2}C_0\dot{0}^2 \cdot \dot{0} = -\frac{V^2}{2k}\dot{0}^2$ $\dot{y} = -\frac{V}{2}C_0\dot{0}^2 \cdot \dot{0} = -\frac{V^2}{2k}\dot{0}^2$

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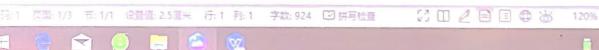


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1.14 送用直角等抗免,
放送通過減程:
$$m \ddot{z} = -m k \ddot{z}$$

 $m \ddot{z} = -m g - m k \ddot{z}$
 $\pi \ddot{z}$, 13 : $\dot{x} = \mathcal{V}_{0x} e^{-kt} + \frac{2}{3}(e^{-kt} - 1)$
其中 女 $\dot{x} = \mathcal{V}_{0x} = \frac{1}{2}$
 $\ddot{z} = \mathcal{V}_{0x} = \frac{1}{2}$
 $\ddot{z} = \mathcal{V}_{0x} = \frac{1}{2}$
 $\ddot{z} = \frac{1}{2}$













等论作业(战论的圣部分)

$$\frac{dV}{dx} = V_0(\frac{a}{x} + \frac{x}{\alpha}),$$

$$\frac{dV}{dx} = V_0(-\frac{a}{x^2} + \frac{1}{a}) = 0, \quad x = \pm a, \quad \Re x = a,$$

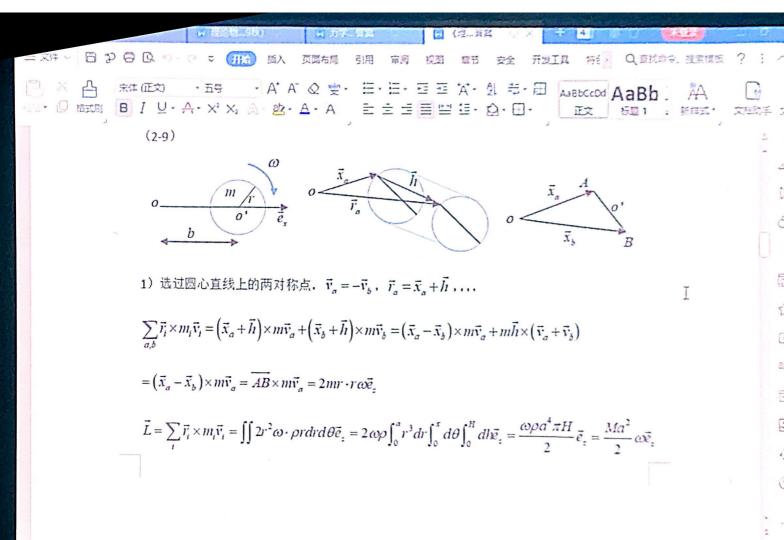
$$\frac{d^2V}{dx^2} = aaV_0x^{-3}, \quad \frac{d^2V}{dx^2}\Big|_{x=a} = \frac{aV_0}{a^2}$$

$$V(x) = V(a) + V(a) \cdot (x - a) + \frac{V''(a)}{2}(x - q)^2 = V(a) + \frac{V''(a)}{2}(x - q)^2$$

$$\overrightarrow{F} = -\frac{aV}{dx} \stackrel{?}{\&} = V''(a) \cdot (x - a) \stackrel{?}{\&} = -\frac{aV_0}{a^2}(x - q) \cdot \stackrel{?}{\&}$$

$$\overrightarrow{F} = -\frac{aV}{a^2}(x - a), \quad \stackrel{?}{\&} \stackrel{?}{\&} = x - q$$

$$\overrightarrow{F} + \frac{aV_0}{a^2} \stackrel{?}{\&} = 0, \quad c_0 = \sqrt{\frac{aV_0}{aV_0^2}}$$



$$\vec{L} = \sum_{i} \vec{r_i} \times m_i \vec{v_i} = \iint 2r^2 \omega \cdot \rho r dr d\theta \vec{e}_z = 2\omega \rho \int_0^a r^3 dr \int_0^\pi d\theta \int_0^H dh \vec{e}_z = \frac{\omega \rho \alpha^4 \pi H}{2} \vec{e}_z = \frac{M\alpha^2}{2} \omega \vec{e}_z$$

双主義領页書

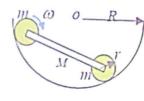
2)
$$\vec{r}_{i} = b\vec{e}_{x} + \vec{r}_{i}', \ \vec{v}_{i} = \vec{v}_{i}',$$

$$\vec{L} = \sum_i \vec{r_i} \times m_i \vec{v_i} = \sum_i \left(b \vec{e}_x + \vec{r_i}' \right) \times m_i \vec{v_i}' = b \sum_i \vec{e}_x \times m_i \vec{v_i}' + \sum_i \vec{r_i}' \times m_i \vec{v_i}' + \sum_i \vec{r_i} \cdot \vec{v_i} \times m_i \vec{v_i}' + \sum_i \vec{v_i} \cdot \vec{v_i} \times m_i \vec{v_i}' + \sum_i \vec{v_i} \cdot \vec{v_i} \times m_i \vec{v_i}' + \sum_i \vec{v_i} \cdot \vec{v_i} \times m_i \vec{v_i} \times m$$

由对称性,
$$\sum_i \vec{e}_x \times m_i \vec{v}_i' = 0$$
, $\vec{L} = \sum_i \vec{r}_i \times m_i \vec{v}_i' = \vec{L}'$,

或者,
$$\vec{v}_e = 0$$
, $\vec{L} = \vec{r}_e \times M\vec{v}_e + \vec{L}' = \vec{L}' = Ice_e$,

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(2-10)

(a)
$$OM = \sqrt{(R-r)^2 - (l/2)^2}$$
, $(R-r)\phi = r\omega$, $v_e = OM \cdot \phi = r\omega \sqrt{1 - \frac{l^2}{4(R-r)^2}}$,

(b) 圆柱体: 动量 $\vec{P} = m\vec{v}_{Lc} = mr \omega \vec{e}_{\sigma}$,

相对 o 点的角动量:

$$\vec{L} = \vec{r}_{1c} \times m\vec{v}_{1c} + \vec{L}' = \left(R - r\right)\vec{e}_r \times mr\omega\vec{e}_{\partial} - I_m\omega\left(\vec{e}_r \times \vec{e}_{\partial}\right) = \left[mr\left(R - r\right) - I_m\right]\omega\left(\vec{e}_r \times \vec{e}_{\partial}\right)$$

立力 育芸
$$T = \frac{1}{2} m \vec{v}_{1c}^2 + T' = \frac{1}{2} n m^2 \omega^2 + \frac{1}{2} I_m \omega^2$$

刚性杆: 动量
$$\vec{P} = M\vec{v}_e = Mr\omega\sqrt{1 - \frac{l^2}{4(R-r)^2}}\vec{e}_{\theta}$$
,

相对 o 点的角动量: $\vec{L} = \vec{r_e} \times M\vec{v_e} + \vec{L}'$

 I^2 $r\omega$ $r\omega$

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