2014-2017年-安全

- # the site to the number of

1.
$$F_{RY} = F_2 + F_1 \times \frac{4}{5} = 200 + 100 \times \frac{4}{5} = 280 N$$
 $F_{RX} = F_1 \times \frac{3}{5} = 100 \times \frac{3}{5} = 60 N$
 $F_{RY} = \sqrt{F_{RX}^2 + F_{RY}^2} = 286.36 N$
 $M_A(F_1) = \frac{4}{5} \times F_1 \times 2 - \frac{3}{5} \times F_1 \times 2 = \frac{1}{5} \times 100 \times 2 = 40 N \cdot m$
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2.
$$F_{x} = -\frac{\sqrt{2}}{3}F$$
 3'
$$M_{2}(F) = \frac{\sqrt{2}}{3}F \cdot A \cdot 3'$$

3.
$$Uc = Wr = 2x0.S = |m|/2$$

$$Q_c^M = \frac{Uc^2}{R-r} = \frac{1^2}{1-0.5} = 2m/2^2 \frac{2}{3} = \frac{1}{3}$$

$$Q_c^{\dagger} = d \cdot r = 2x0.S = |m|/2^2 \frac{2}{3} = \frac{1}{3}$$

$$\frac{4 \cdot \omega}{\sqrt{2}} = \frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}}$$

ac初(1)见图 21

5.
$$ABPRITANS.$$
 $U_B = U_A = W \cdot \Gamma$ 2'

 $W_{AB} = 0$ 2'

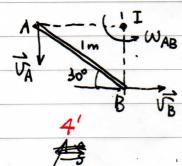
 $P = P_{OA} + P_{AB} + P_B$ $W_{AB} + F_{COE}$
 $P_{OA} = M_1 \cdot \frac{\omega}{2} \cdot r + 2M_1 \cdot \omega r + m_2 \omega r = (\frac{5}{2} m_1 + m_2) \omega r$ 2'

 $E_K = E_{KOA} + E_{KAB} + E_{KB}$
 $= \frac{1}{2} (\frac{1}{3} m_1 r^2) \omega^2 + \frac{1}{2} (2m_1) (\omega r)^2 + \frac{1}{2} m_2 (\omega r)^2$
 $= (\frac{1}{5} + 1) m_1 \omega^2 r^2 + \frac{1}{2} m_2 \omega^2 r^2$
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Date

6.
$$L_0^{M_0} = m_2 U \cdot \Gamma_2$$
 $L_0 = J_0 \omega + m_2 U \cdot \Gamma_3 + m_1 U \cdot \Gamma_1 = J_0 \omega + m_2 \omega \Gamma_2^2 + m_1 \omega \Gamma_1^2$
 $\frac{dL_0}{dt} = Z M_0 (F_0^R) \qquad (J_0 + m_2 \Gamma_2^2 + m_1 n_1^2) \cdot (d_1 = m_1 n_1 - m_2 g \cdot \Gamma_2)$
 $d = \frac{(m_1 n_1 - m_2 r_2) \cdot g}{J_0 + m_1 r_1^2 + m_2 r_2^2} \qquad 4$
 $J_0 + m_1 r_1^2 + m_2 r_2^2$
 $J_0 + m_1 r_2^2 + m_2 r_2^2$
 $J_0 + m_1 r_2^2 + m_2 r_2^2$
 $J_0 + m_2 r_2 r_2^2 + m_2 r_2^2 + m_$

MEN (CAN + + IN +)



$$\omega_{AB} = \frac{U_B}{BI} = \frac{1}{0.5} = 2 \text{ rad/s} \quad 2'$$

$$0 = AB + AAB \cdot COS30^{\circ} - AAB \cdot Sin30^{\circ} 2'$$

$$= AB + AB \cdot COS30^{\circ} - AAB \cdot Sin30^{\circ}$$

$$\begin{array}{lll}
\Omega_{AB} = \omega_{AB}^{2} |AB| = 4x_{1} = 4m_{1}^{2} & 2' \\
\Omega_{AB} = 2x_{1}^{2} & 2 + 4x_{2}^{3} & 2 = 4 + 4\sqrt{3} & 2 = 10.93 & 2 = 10.$$

计系经 3.

19 EN 50=400 mm.

43 Ht. 82= 300 mm

$$E_{K_1} = \frac{1}{2}J\omega^2 = \frac{1}{2}(\frac{1}{3}ml^2)\cdot\omega^2 = \frac{1}{6}x_{15}x_{0.4}x_{4} = 1.6J$$

ER2= = (3ml2) w,2

2/ box
$$W_{12} = m_1 q \cdot \frac{1}{2} + \frac{1}{2} k \delta_1^2 - \frac{1}{2} k \delta_2^2$$

= 9.4 5

$$W_{12}=0E_{R}$$
 1' $\frac{1}{6}ml^{2}w_{1}^{2}-\frac{1}{1.6J}=9.4J$

$$w_{1}=\frac{(9.4+1.6)x_{6}}{15x_{0.4}^{2}}=5.24 rad/s$$

 $\frac{1}{3}ml^2 \cdot \alpha = \frac{2}{5}ml^2 \cdot \alpha = \frac{2}{5}ml^$

IFIX = Macx Fox = - mach = -15x5.49 = -8235N

I Fig = macy Fr- mg+ Foy = macy Foy= 111.75N