

物理

1

解答

$$\begin{aligned} (1) M_1 \frac{L}{l} \quad (2) \rho V g \quad (3) (M_1 - M_2) g \frac{L}{l} \quad (4) \frac{(M_1 - M_2)L}{\rho l} \\ (5) \frac{M_1}{M_1 - M_2} \rho \quad (6) mg \frac{L-l}{2} \quad (7) M_3 g L \quad (8) M_3 \frac{L}{l} + m \left(\frac{L-l}{2l} \right) \\ (9) \left\{ M_3 \frac{L}{l} + m \left(\frac{L-l}{2l} \right) - \rho V \right\} g l \cos \theta \quad (10) \frac{(M_3 - M_4)L}{\rho l} \\ (11) \frac{2M_3 L + m(L-l)}{2(M_3 - M_4)L} \rho \end{aligned}$$

2

解答

$$\begin{aligned} (1) l_0 + l \quad (2) \frac{2\pi}{\omega} \quad (3) (l_0 + l) \omega \quad (4) \frac{m l_0 \omega^2}{k - m \omega^2} \quad (5) \frac{\omega}{2\pi} \\ (6) (l_0 + l) \sin \omega t' \quad (7) (l_0 + l) \omega \cos \omega t' \quad (8) -\omega^2 (l_0 + l) \sin \omega t' \\ (9) a = -\omega^2 x \quad (10) m \omega^2 \end{aligned}$$