

PROBLEM 12.71

PROBLEM: The airplane in Problem 12.70 is shown with its propellers rotating and its engine cylinders, both, counter-rotating relative to the fuselage and wing sections.

Given: Configuration for the rotating and counter-rotating propellers and the airplane with the fuselage rotating. Find the angular velocities for rotational energy.

Assumptions: 1. No friction losses.

Relationships: 1. The conservation of angular momentum, e.g., the conservation of angular momentum for the propellers. There is no change in rotation.



Relationship: The rotational energy is

$$\begin{aligned} \text{Rot. En.} &= \frac{1}{2} I_0 \omega_0^2 = \frac{1}{2} I_0 \omega_0^2 \left(\frac{1}{\omega_0} \right)^2 \left[\frac{1}{\omega_0} \right] \left[\frac{1}{\omega_0} \right] \\ &= \frac{1}{2} I_0 \omega_0^2 \omega_0^2 \end{aligned} \quad (1)$$

The gravitational potential energy is

$$\begin{aligned} \text{Pot. En.} &= \text{mass} \times \text{height} \times \omega_0^2 \left(\frac{1}{\omega_0} \right)^2 \left[\frac{1}{\omega_0} \right] \left[\frac{1}{\omega_0} \right] \\ &= \text{mass} \times \text{height} \times \omega_0^2 \end{aligned} \quad (2)$$

Let: The change in kinetic energy is related to the initial and final states (Eq. 12.12)

$$\Delta \text{Kin.} = \frac{1}{2} I_0 (\omega_1^2 - \omega_0^2)$$

Then, solving for ω_1^2 and substituting eq. (1)

$$\begin{aligned} \omega_1^2 &= \frac{2 \Delta \text{Kin.}}{I_0} + \omega_0^2 \\ &= \frac{2 \times \text{mass} \times \text{height}}{I_0 \omega_0^2} \left[\frac{1}{\omega_0} \right] \left[\frac{1}{\omega_0} \right] + \omega_0^2 \\ &= \text{mass} \times \text{height} \times \omega_0^2 \end{aligned}$$

$$\omega_1 = \text{mass} \times \text{height} \times \omega_0 \quad (3)$$

∴ For part (b), the rotating propellers are required.

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Jianjun Gao



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