

PROBLEM 12.71

PROBLEM: The airplane, at constant speed, is shown with its propellers rotating and its engine cylinders, with, unbalanced pistons, at the first instant after lift-off. Describe.

Given: Conditions for the rotating and unbalanced pistons at the instant, with the first instant after lift-off. The engine cylinders, with, unbalanced pistons, at the first instant after lift-off.

Find: The angular velocity of the propellers.

Assumptions: The propellers are rotating and the engine cylinders, with, unbalanced pistons, at the first instant after lift-off. The engine cylinders, with, unbalanced pistons, at the first instant after lift-off.



Assumptions: The propellers are rotating and the engine cylinders, with, unbalanced pistons, at the first instant after lift-off.

$$\begin{aligned} \text{Propellers: } \omega_{\text{prop}} &= \frac{1}{2} \omega_{\text{prop}}^2 = \frac{1}{2} \omega_{\text{prop}}^2 \left(\frac{1}{\omega_{\text{prop}}^2} \right) \left(\frac{1}{\omega_{\text{prop}}^2} \right) \\ &= \frac{1}{2} \omega_{\text{prop}}^2 \left(\frac{1}{\omega_{\text{prop}}^2} \right) \end{aligned} \quad (1)$$

Find: The angular velocity of the propellers.

$$\begin{aligned} \text{Propellers: } \omega_{\text{prop}} &= \frac{1}{2} \omega_{\text{prop}}^2 \left(\frac{1}{\omega_{\text{prop}}^2} \right) \left(\frac{1}{\omega_{\text{prop}}^2} \right) \\ &= \frac{1}{2} \omega_{\text{prop}}^2 \left(\frac{1}{\omega_{\text{prop}}^2} \right) \end{aligned} \quad (2)$$

Given: The change in kinetic energy, as calculated for the propellers and engine cylinders, is:

$$\Delta K_{\text{prop}} = \frac{1}{2} m_{\text{prop}} (\omega_{\text{prop}}^2 - \omega_{\text{prop}}^2)$$

Find: The change in kinetic energy, as calculated for the propellers and engine cylinders.

$$\begin{aligned} \Delta K_{\text{prop}} &= \frac{1}{2} m_{\text{prop}} (\omega_{\text{prop}}^2 - \omega_{\text{prop}}^2) \\ &= \frac{1}{2} m_{\text{prop}} (\omega_{\text{prop}}^2 - \omega_{\text{prop}}^2) \left(\frac{1}{\omega_{\text{prop}}^2} \right) \left(\frac{1}{\omega_{\text{prop}}^2} \right) \\ &= \frac{1}{2} m_{\text{prop}} (\omega_{\text{prop}}^2 - \omega_{\text{prop}}^2) \end{aligned}$$

$$\Delta K_{\text{prop}} = \frac{1}{2} m_{\text{prop}} (\omega_{\text{prop}}^2 - \omega_{\text{prop}}^2) \quad (3)$$

Find: The change in kinetic energy, as calculated for the propellers and engine cylinders.

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Hussin A.Rothana



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