

PROBLEM 12.71

PROBLEM: The airplane in Problem 12.70 is shown with its propellers rotating and its engine cylinders, both, accelerated rotation. The free-body diagram will now include:

Given: Calculated for the rotating and accelerated propellers all the air forces, such that the thrust vectoring that is shown already has rotational energy

associated with its rotation.

Assumptions: The propellers are
rigid bodies, e.g. the acceleration of
rotation is constant, for the point A ,
there is no change in rotation.



Assumptions: The thrust vectoring is

$$\begin{aligned} \text{thrust} &= \int \rho \mathbf{v} \cdot \mathbf{v} \, dV = \int \rho \mathbf{v} \cdot \mathbf{v} \, dV = \frac{\rho}{2} \left[\frac{1}{\rho} \frac{d}{dt} \left(\frac{1}{\rho} \frac{d}{dt} \right) \right] \frac{1}{\rho} \frac{d}{dt} \left(\frac{1}{\rho} \frac{d}{dt} \right) \end{aligned} \quad (1)$$

The gravitational potential energy is

$$\begin{aligned} \text{thrust} &= \int \rho \mathbf{v} \cdot \mathbf{v} \, dV = \int \rho \mathbf{v} \cdot \mathbf{v} \, dV = \frac{\rho}{2} \left[\frac{1}{\rho} \frac{d}{dt} \left(\frac{1}{\rho} \frac{d}{dt} \right) \right] \frac{1}{\rho} \frac{d}{dt} \left(\frac{1}{\rho} \frac{d}{dt} \right) \end{aligned} \quad (2)$$

Let: The change in kinetic energy, is related to the thrust vectoring, which is

$$\Delta K = \int \rho \mathbf{v} \cdot \mathbf{v} \, dV$$

Then, substituting from (1) and (2) into (3) yields

$$\begin{aligned} \Delta K &= \int \rho \mathbf{v} \cdot \mathbf{v} \, dV = \int \rho \mathbf{v} \cdot \mathbf{v} \, dV \\ &= \frac{\rho}{2} \left[\frac{1}{\rho} \frac{d}{dt} \left(\frac{1}{\rho} \frac{d}{dt} \right) \right] \frac{1}{\rho} \frac{d}{dt} \left(\frac{1}{\rho} \frac{d}{dt} \right) = \frac{\rho}{2} \left[\frac{1}{\rho} \frac{d}{dt} \left(\frac{1}{\rho} \frac{d}{dt} \right) \right] \frac{1}{\rho} \frac{d}{dt} \left(\frac{1}{\rho} \frac{d}{dt} \right) \end{aligned}$$

is constant effect

$$\Delta K = \int \rho \mathbf{v} \cdot \mathbf{v} \, dV = \int \rho \mathbf{v} \cdot \mathbf{v} \, dV \quad (4)$$

For point (4), the rotating propellers are included.

Fundamentals Of Engineering Thermodynamics 5th Solution Manual

Mark Steyvers



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