

PROBLEM 12.71

PROBLEM: The airplane in Problem 12.70 is shown with its engines on starting and on approach to landing. Assume that the maximum thrust of the two engines is 10000 lb.

Given: Calculate for a 1000-lb aircraft, determine maximum lift that can be obtained, and find the steady velocity that is required to obtain the indicated velocity.

Assume: $\mu = 0.2$ between wheels and runway.

Sketch: Diagram of the aircraft on a runway. The aircraft is shown with its engines on starting and on approach to landing. The diagram shows the aircraft's weight, the thrust of the engines, and the normal force from the runway.



Assume: The indicated velocity is

$$\begin{aligned} 1000 \text{ ft/s} &= 2 \times 10000 \text{ lb} \times \frac{1}{1000 \text{ lb}} = 2 \times 10000 \text{ ft/s} \times \frac{1}{1000 \text{ lb}} \times \frac{1}{1000 \text{ lb}} \\ &= 20000 \text{ ft/s} \times \frac{1}{1000 \text{ lb}} \end{aligned} \quad (1)$$

The indicated velocity is

$$\begin{aligned} 1000 \text{ ft/s} &= 2 \times 10000 \text{ lb} \times \frac{1}{1000 \text{ lb}} \times \frac{1}{1000 \text{ lb}} \\ &= 20000 \text{ ft/s} \times \frac{1}{1000 \text{ lb}} \end{aligned} \quad (2)$$

Let: The change in kinetic energy is indicated by the indicated velocity. Then, the change in kinetic energy is

$$\Delta KE = \frac{1}{2} m (v_2^2 - v_1^2)$$

Then, solving for v_2^2 and substituting the values

$$\begin{aligned} v_2^2 &= \frac{2 \Delta KE}{m} + v_1^2 \\ &= \frac{2 \times 10000 \text{ lb} \times \frac{1}{1000 \text{ lb}}}{1000 \text{ lb}} \times \frac{1}{1000 \text{ lb}} + \frac{1}{1000 \text{ lb}} \\ &= 20000 \text{ ft/s} \end{aligned}$$

$$v_2 = 141.4 \text{ ft/s} \quad (3)$$

For part (b), the indicated velocity is indicated.

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G Thomas



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