Holt Physics

Problem 2E

FINAL VELOCITY AFTER ANY DISPLACEMENT

PROBLEM

In 1970, a rocket-powered car called Blue Flame achieved a maximum speed of 1.00 (10° km/h (278 m/s). Suppose the magnitude of the car's constant acceleration is 5.56 m/s². If the car is initially at rest, what is the distance traveled during its acceleration?

SOLUTION

1. DEFINE Given:

dven: $\nu_i = 0 \text{ m/s}$

$$\nu_f = 278$$
 ands

$$a = 5.56 \text{ m/s}^2$$

Umkanowena

$$\Delta x = 0$$

R. PLAN

Choose an equation(s) or situation: Use the equation for the final velocity after any displacement.

$$s\gamma^2 = s\gamma^2 + 2a\Delta s$$

Rearrange the equation(s) to isolate the unknown(s):

$$\Delta x = \frac{v_f^2 - v_i^2}{2\alpha}$$

B. CALCULATE

Substitute the values into the equation(s) and solve:

$$\Delta x = \frac{\left(278 \frac{\text{m}}{\text{s}}\right)^2 - \left(0 \frac{\text{m}}{\text{s}}\right)^2}{(2)\left(5.56 \frac{\text{m}}{\text{s}^2}\right)} = \boxed{6.95 \times 10^3 \text{ m}}$$

46. EMALLIATE

Using the appropriate kinematic equation, the time of travel for Blue Flame is found to be 50.0 s. From this value for time the distance traveled during the acceleration is confirmed to be almost 7 km. Once the car reaches its maximum speed, it travels about 16.7 km/min.

ADDITIONAL PRACTICE

- 1. In 1976, Kitty Hambleton of the United States drove a rocket-engine car to a maximum speed of 965 km/h. Suppose Kitty started at rest and underwent a constant acceleration with a magnitude of 4.0 m/s². What distance would she have had to travel in order to reach the maximum speed?
- 2. With a cruising speed of 2.30 × 10³ km/h, the French supersonic passenger jet Concorde is the fastest commercial airplane. Suppose the landing speed of the Concorde is 20.0 percent of the cruising speed. If the plane accelerates at -5.80 m/s², how far does it travel between the time it lands and the time it comes to a complete stop?

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