

PROBLEM 11.1

A snowboarder starts from rest at the top of a double black diamond hill. As he rides down the slope, GPS coordinates are used to determine his displacement as a function of time: $x = 0.5t^3 + t^2 + 2t$ where x and t are expressed in ft and seconds, respectively. Determine the position, velocity, and acceleration of the boarder when $t = 5$ seconds.

SOLUTION

Position:

$$x = 0.5t^3 + t^2 + 2t$$

Velocity:

$$v = \frac{dx}{dt} = 1.5t^2 + 2t + 2$$

Acceleration:

$$a = \frac{dv}{dt} = 3t + 2$$

At $t = 5$ s,

$$x = 0.5(5)^3 + 5^2 + 2(5)$$

$$x = 97.5 \text{ ft} \quad \blacktriangleleft$$

$$v = 1.5(5)^2 + 2(5) + 2$$

$$v = 49.5 \text{ ft/s} \quad \blacktriangleleft$$

$$a = 3(5) + 2$$

$$a = 17 \text{ ft/s}^2 \quad \blacktriangleleft$$

Beer And Johnston Dynamics Solution Manual

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properties the modeling and simulation of non classical materials and structures and new technologies for joining materials It presents the developments of advanced materials and respective tools to characterize and predict the material properties and behavior

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