TOPIC

Engineering Mechanics (Statics and Dynamics) – Section VII – Question 9

QUESTION

A body is traveling in a straight line. The equation of motion is given by

$$x(t) = 5t^3 + 3t^2 - 6t$$

where

xis given in meters, and

tis given in seconds.

The acceleration of the body in m/s^2 at t = 5.25 seconds most nearly is

- (A) 6.000
- (B) 163.5
- (C) 436.8
- (D) 752.9

CONTRIBUTOR

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