

Engineering Mechanics – Dynamics

Sheet 1 – Rectilinear Motion – Straight Line Motion - Analytic Solution

Summary:

- Straight line could be X, or Y and sometimes could be S.
- The position vector on the straight line is : X or Y or S
- The velocity is the rate of change of the position vector with respect to time:

$$v = \frac{dx}{dt}$$

- The acceleration is the rate of change of velocity vector with respect to time:

$$a = \frac{dv}{dt}$$

- The relation between the acceleration, velocity and position is :

$$a = \frac{dv}{dt} \frac{dx}{dx} = \frac{v dv}{dx}$$

- The initial velocity (v_o) is the velocity of the particle at time $t = 0$.

- Special cases: when the acceleration is uniform the relations will be:

$$v = v_o + at$$

$$x - x_o = v_o t + \frac{1}{2} at^2$$

$$v^2 = v_o^2 + 2a(x - x_o)$$

- The displacement at any time t is: $x(t) - x_o$
- The total distance during time t is: the summation of the distances that the particle makes during the parts of the motion right or left (up or down)
- The particle will change its direction when $v = 0$

Problems:

12-1 Starting from rest, a particle moving on a straight line has an acceleration of $a = (2t - 6) \text{ m/s}^2$, where t is in seconds. What is the particle's velocity when $t = 6 \text{ sec}$, and what is the position when $t = 11 \text{ sec}$?

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