

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_0) is the velocity of the particle at time $t = 0$.

- Special cases: when the acceleration is uniform the relations will be:
$$v = v_0 + at$$
$$x - x_0 = v_0 t + \frac{1}{2} at^2$$
$$v^2 = v_0^2 + 2a(x - x_0)$$
- The displacement at any time t is: $x(t) - x_0$
- 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 $t = 6$ sec, and what is the position when $t = 11$ sec ?

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