3 TWO DIMENSIONAL MOTION

 The location of a particle in space is identified by a position vector F directed from the origin O to a point P.

$$Y = xf + yg + zf \tag{3.1}$$

In this expression, x.f., y/j, x1 are the rector compresents and x, y, x are the scalar compresents of the particle's resition porter f.

 The movement of a particle from position vector F, to position vector F_f is identified by a displacement textor AF.

$$\Delta I = I_f = E_f$$
 (9.2)

In this expression, the subscripts I and I stand for initial and final respectively. The position vector can also be written as

$$\Delta I = (x_f - x_i)I = (y_f - y_i)I + i(y_f - z_i)I$$
 (3.3)

5000 BBB

$$M = \Delta x t + \Delta y t + \Delta x t. \qquad (3.4)$$

where (x_i, y_i, z_i) are the coordinates ∂t_i position vector F_i and (x_i, y_i, z_j) are the coordinates of position vector F_i :

The displacement \(\Delta \for \text{of a principle during a time interval. \(\Delta \text{ in the particle's average inductive \(\text{f}_{min}\).

$$\beta_{\text{reg}} = \frac{\Delta t'}{\Delta t}$$
(3.3)

4. The instrutureurs relatify if is the limit of the average velocity as At approaches need

$$\theta = \lim_{N \to \infty} \frac{\Delta P}{\Delta V} - \frac{dP}{dV}$$
(3.00)

The instantaneous velocity if can also be written in unit vector notation as

where $F_s = dx/dx$, $F_g = dy/dt$, and $F_c = dx/dt$. A particle's instantaneous velocity F is the rate of change of its position vector F. The magnitude of the particle's instantaneous velocity F is the speed, and its direction is always tangent to its path at that position.

 The change in a porticle's instantaneous velocity AF during a time interval AF is its surregy acceleration d_{esc}.

$$E_{trip} = \frac{\Delta d}{\Delta t}$$
(3.8)

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