

Equation Sheet for Engineering Mechanics 12—Dynamics

Notes: vectors are indicated by boldface type.

Miscellaneous

$$\text{If } ax^2 + bx + c = 0, \text{ then } x = \left(-b \pm \sqrt{b^2 - 4ac} \right) / 2a.$$

Rectilinear (1-D) Motion

Position: $s(t)$; Velocity: $v = \dot{s} = ds/dt$; Acceleration: $a = \dot{v} = dv/dt = d^2s/dt^2 = vdv/dx$. For constant acceleration a_c :

$$v^2 = v_0^2 + 2a_c(s - s_0)$$

$$v = v_0 + a_c t$$

$$s = s_0 + v_0 t + \frac{1}{2} a_c t^2$$

2D Motions—Cartesian Coordinates

Position: $\mathbf{r} = x\hat{\mathbf{i}} + y\hat{\mathbf{j}}$; Velocity: $\mathbf{v} = d\mathbf{r}/dt = \dot{x}\hat{\mathbf{i}} + \dot{y}\hat{\mathbf{j}}$; Acceleration: $\mathbf{a} = d\mathbf{v}/dt = d^2\mathbf{r}/dt^2 = \ddot{x}\hat{\mathbf{i}} + \ddot{y}\hat{\mathbf{j}}$

2D Motions—Normal-Tangential (Path) Coordinates

$$\mathbf{v} = v\hat{\mathbf{e}}_t$$

$$v = \rho\dot{\theta}$$

$$\mathbf{a} = a_t\hat{\mathbf{e}}_t + a_n\hat{\mathbf{e}}_n$$

$$a_t = \dot{v}$$

$$a_n = \rho\dot{\theta}^2 = v^2/\rho$$

2D Motions—Polar Coordinates

$$\mathbf{r} = r\hat{\mathbf{e}}_r$$

$$\mathbf{v} = v_r\hat{\mathbf{e}}_r + v_\theta\hat{\mathbf{e}}_\theta$$

$$v_r = \dot{r}$$

$$v_\theta = r\dot{\theta}$$

$$\mathbf{a} = a_r\hat{\mathbf{e}}_r + a_\theta\hat{\mathbf{e}}_\theta$$

$$a_r = \ddot{r} - r\dot{\theta}^2$$

$$a_\theta = r\ddot{\theta} + 2\dot{r}\dot{\theta}$$

Newton's Second Law

$$\sum \mathbf{F} = m\mathbf{a}; \sum F_x = ma_x; \sum F_y = ma_y; \sum F_n = ma_n; \sum F_t = ma_t; \sum F_r = ma_r; \sum F_\theta = ma_\theta$$

Work-Energy Principle

$$U_{1 \rightarrow 2} = \int_C \mathbf{F} \cdot d\mathbf{r}$$

$$T = \frac{1}{2}mv^2$$

$$T_1 + \sum U_{1 \rightarrow 2} = T_2$$

$$V_g = W_g$$

$$T_1 + V_1 + (U_{1 \rightarrow 2})_{nc} = T_2 + V_2$$

$$V_e = \frac{1}{2}k\delta^2$$

Linear Impulse-Momentum Principle

$$\mathbf{p} = m\mathbf{v}$$

$$\mathbf{F} = \frac{d\mathbf{p}}{dt}$$

$$\mathbf{L}_{1 \rightarrow 2} = \int_{t_1}^{t_2} \mathbf{F} dt = m\mathbf{v}_2 - m\mathbf{v}_1$$

Impact of Smooth Particles

For a coefficient of restitution e , in the direction along to the line of impact (LOI) or n direction:

$$e = \frac{v_{\text{separate}}}{v_{\text{approach}}} = \frac{v_{B_2} - v_{A_2}}{v_{A_1} - v_{B_1}}$$

Total linear momentum is conserved in the n direction: $(m_A v_{A_1} + m_B v_{B_1})_n = (m_A v_{A_2} + m_B v_{B_2})_n$. Velocity of each particle is conserved perpendicular to the LOI (t direction): $(v_{A_1} = v_{A_2})_t$ and $(v_{B_1} = v_{B_2})_t$.

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Ovid Wallace Eshbach



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