

Equation Sheet for Engineering Mechanics 12—Dynamics

Note: vectors are indicated by boldface type.

Miscellaneous

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

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 :

$$v^2 = v_0^2 + 2a_c(s - s_0) \qquad v = v_0 + a_c t \qquad s = s_0 + v_0 t + \frac{1}{2}a_c t^2$$

2D Motions—Cartesian Coordinates

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

2D Motions—Normal-Tangential (Path) Coordinates

$$\mathbf{v} = v\hat{\mathbf{e}}_t \qquad v = \rho\dot{\theta} \qquad \mathbf{a} = a_t\hat{\mathbf{e}}_t + a_n\hat{\mathbf{e}}_n \qquad a_t = \dot{v} \qquad a_n = \rho\dot{\theta}^2 = v^2/\rho$$

2D Motions—Polar Coordinates

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

$$\mathbf{a} = a_r\hat{\mathbf{e}}_r + a_\theta\hat{\mathbf{e}}_\theta \qquad a_r = \ddot{r} - r\dot{\theta}^2 \qquad a_\theta = r\ddot{\theta} + 2\dot{r}\dot{\theta}$$

Newton's Second Law

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

Work-Energy Principle

$$U_{1-2} = \int_C \mathbf{F} \cdot d\mathbf{r} \qquad T = \frac{1}{2}mv^2 \qquad T_1 + \sum U_{1-2} = T_2$$

$$V_g = W_g \qquad T_1 + V_1 + (U_{1-2})_{nc} = T_2 + V_2 \qquad V_s = \frac{1}{2}k\delta^2$$

Linear Impulse-Momentum Principle

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

Impact of Smooth Particles

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

$$e = \frac{v_{\text{separate}}}{v_{\text{approach}}} = \frac{v_{B2} - v_{A2}}{v_{A1} - v_{B1}}$$

Total linear momentum is conserved in the n direction: $(m_A v_{A1} + m_B v_{B1})_n = (m_A v_{A2} + m_B v_{B2})_n$. Velocity of each particle is conserved perpendicular to the LOI (t direction): $(v_{A1} = v_{A2})_t$ and $(v_{B1} = v_{B2})_t$.

Equation Sheet For Engineering Mechanics 12 Dynamics

D Keegan



Equation Sheet For Engineering Mechanics 12 Dynamics:

This book delves into Equation Sheet For Engineering Mechanics 12 Dynamics. Equation Sheet For Engineering Mechanics 12 Dynamics is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Equation Sheet For Engineering Mechanics 12 Dynamics, encompassing both the fundamentals and more intricate discussions.

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