



MECHANICS

VELOCITY & ACCELERATION

Rectilinear Motion



Velocity

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

$$a = \frac{dv}{dt} = \frac{d^2s}{dt^2}$$

Acceleration

$$a = \frac{dv}{dt} = \frac{d^2s}{dt^2}$$

$$v = \int a dt = at + v_0$$

$$s = \int v dt = \frac{1}{2}at^2 + v_0t + s_0$$

Circular Motion



Velocity

$$v = r\omega$$

$$a = r\alpha$$

Acceleration

$$a = r\alpha$$

$$v = r\omega$$

$$s = r\theta$$

PARTICLE DYNAMICS

Rectilinear Motion

Center of Mass (COM)

$$x_{cm} = \frac{\sum m_i x_i}{\sum m_i}$$

$$y_{cm} = \frac{\sum m_i y_i}{\sum m_i}$$

Linear Momentum

$$p = mv$$

$$F = \frac{dp}{dt}$$

Gravitational Force

$$F_g = G \frac{m_1 m_2}{r^2}$$

$$G = 6.67 \times 10^{-11} \text{ Nm}^2/\text{kg}^2$$

Translational Equilibrium

$$\sum F = 0$$

$$\sum \tau = 0$$

Conservation of linear momentum

$$\sum p = \text{constant}$$

Circular Motion

Moment of Inertia

$$I = \sum m_i r_i^2$$

$$I = \frac{1}{2}mr^2$$

Angular Momentum

$$L = I\omega$$

$$\tau = \frac{dL}{dt}$$

Centripetal Force

$$F_c = \frac{mv^2}{r}$$

$$F_c = mr\omega^2$$

Rotational Equilibrium

$$\sum \tau = 0$$

$$\sum \tau = 0$$

Conservation of angular momentum

$$\sum L = \text{constant}$$

ENERGY

Rectilinear Motion

Work (Constant Force)

$$W = Fd \cos \theta$$

Work (Gravity)

$$W = mgh$$

Kinetic energy

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

Power (Constant Force)

$$P = Fv$$

Circular Motion

Work (Constant Torque)

$$W = \tau \theta$$

Kinetic energy

$$K = \frac{1}{2}I\omega^2$$

Power (Constant Torque)

$$P = \tau \omega$$

Conservation of mechanical energy

$$K + U = \text{constant}$$

WAVE MOTION

Displacement

$$y = A \sin(\omega t + \phi)$$

Velocity

$$v = \frac{dy}{dt} = A\omega \cos(\omega t + \phi)$$

Acceleration

$$a = \frac{dv}{dt} = -A\omega^2 \sin(\omega t + \phi)$$

Period

$$T = \frac{2\pi}{\omega}$$

Angular frequency

$$\omega = 2\pi f$$

Frequency

$$f = \frac{1}{T}$$

Mass On Spring

Total energy

$$E = \frac{1}{2}kx^2 + \frac{1}{2}mv^2$$

Conservation of mechanical energy

$$K + U = \text{constant}$$

Displacement

$$x = A \sin(\omega t + \phi)$$

Velocity

$$v = \frac{dx}{dt} = A\omega \cos(\omega t + \phi)$$

Acceleration

$$a = \frac{dv}{dt} = -A\omega^2 \sin(\omega t + \phi)$$

Period

$$T = \frac{2\pi}{\omega}$$

FLUID MOTION: CONTINUITY, PAKE & DENSITY

Flow rate

$$Q = Av$$

Density

$$\rho = \frac{m}{V}$$

Hydrostatic Pressure

$$P = P_0 + \rho gh$$

Pascal's Equation

$$P_1 = P_2$$

Continuity Equation

$$Q_1 = Q_2$$

Flow in = Flow out



Continuity Equation

$$A_1 v_1 = A_2 v_2$$

Flow in = Flow out

MAGNETISM

MAGNETIC FIELDS PRODUCED BY CURRENTS

System

Wires with current I, carrying current I

Magnetic Field Produced

$$B = \frac{\mu_0 I}{2\pi r}$$

$$\mu_0 = 4\pi \times 10^{-7} \text{ Tm/A}$$

Cool N turns, length L, carrying current I

$$B = \frac{\mu_0 N I}{L}$$

Magnetic Field Produced

$$B = \frac{\mu_0 N I}{L}$$

$$\mu_0 = 4\pi \times 10^{-7} \text{ Tm/A}$$

CURRENTS INDUCED BY MAGNETIC FIELDS

System

Wire moving in magnetic field

EMF Induced

$$\mathcal{E} = \frac{d\Phi}{dt}$$

Coil in time-varying magnetic field

$$\mathcal{E} = -N \frac{d\Phi}{dt}$$

Self-induction

$$\mathcal{E} = -L \frac{dI}{dt}$$

EMF Induced

$$\mathcal{E} = \frac{d\Phi}{dt}$$

Inductance

$$L = \frac{N\Phi}{I}$$

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