



## MECHANICS

### VELOCITY & ACCELERATION

#### Rectilinear Motion



Velocity

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

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

Acceleration

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

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

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

#### Circular Motion



Velocity

$$v = r\omega$$

$$a = r\alpha$$

Acceleration

$$a = \frac{dv}{dt} = r\frac{d\omega}{dt} = r\alpha$$

$$v = \int a dt = r\omega + v_0$$

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

### 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

$$p = mv$$

$$F = \frac{dp}{dt} = m\frac{dv}{dt} = ma$$

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

$$\frac{dp}{dt} = 0$$

$$p = \text{constant}$$

#### Circular Motion

Moment of Inertia

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

$$I = \int r^2 dm$$

Angular Momentum

$$L = I\omega$$

$$\tau = \frac{dL}{dt} = I\frac{d\omega}{dt} = I\alpha$$

Centripetal Force

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

$$F_c = m\omega^2 r$$

Rotational Equilibrium

$$\sum \tau = 0$$

$$\sum \tau = 0$$

Conservation of angular momentum

$$\frac{dL}{dt} = 0$$

$$L = \text{constant}$$

### 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)

$$P = \frac{dW}{dt} = Fv$$

#### Circular Motion

Work (Constant Torque)

$$W = \tau \theta$$

Kinetic energy

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

Power (Constant Torque)

$$P = \frac{dW}{dt} = \tau \omega$$

Notes: Conservation of mechanical energy

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

### OSCILLATION

Displacement

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

Velocity

$$v = -A\omega \sin(\omega t + \phi)$$

Acceleration

$$a = -A\omega^2 \cos(\omega t + \phi)$$

Period

$$T = \frac{1}{f} = \frac{2\pi}{\omega}$$

Angular frequency

$$\omega = 2\pi f$$

Mass On Spring

$$F = -kx$$

$$U = \frac{1}{2}kx^2$$

### FLUID MECHANICS: LIQUIDS & GASES

Density

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

Pressure

$$P = \frac{F}{A}$$

Hydrostatic Pressure

$$P = P_0 + \rho gh$$

Pascal's Equation

$$P_1 = P_2$$

Continuity Equation

$$Q = A_1 v_1 = A_2 v_2$$

Bernoulli Equation

$$P + \rho gh + \frac{1}{2}\rho v^2 = \text{constant}$$

## MAGNETISM

### MAGNETIC FIELD PRODUCED BY CURRENTS

System

Wires with current I, carrying current I

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

Magnetic Field Produced

Wire with current I, carrying current I

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

Coil with current I, carrying current I

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

Magnetic Field Produced

Wire with current I, carrying current I

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

### CURRENTS INDUCED BY MAGNETIC FIELDS

System

Wire moving in magnetic field

$$\mathcal{E} = Bv$$

Induced EMF

Coil in time-varying magnetic field

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

Self-induction

Coil with current I, carrying current I

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

Induced EMF

Coil in time-varying magnetic field

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

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