

$$\text{Average velocity } \bar{v} = \frac{\Delta x}{\Delta t} = \frac{x_f - x_i}{t_f - t_i}$$

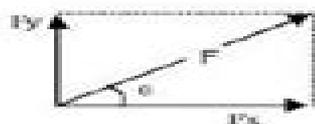
Average acceleration =

$$\bar{a} = \frac{\Delta v}{\Delta t} = \frac{v_f - v_i}{t_f - t_i}$$

$v = u + at$ (for constant acceleration, a)

$v^2 = u^2 + 2as$ (for constant acceleration, a)

$s = ut + \frac{1}{2}at^2$ (for constant acceleration, a)



$$F = \sqrt{F_x^2 + F_y^2}$$

$$180^\circ \theta = \frac{F_x}{F_y}$$

$$F_{net} = ma$$

$$F_s = \mu_s R$$

$$F_s \leq \mu_s R$$



$$W = F \cos \theta \cdot s$$

$$K = \frac{1}{2} m v^2$$

$$W = K_e - K_i$$

Gravitational Potential Energy = mgh

Potential energy stored in spring = $\frac{1}{2} kx^2$

$$P = \frac{W}{t}$$

$$p = m v$$

$$F = \frac{\Delta p}{\Delta t}$$

$$I = F \Delta t = \Delta p$$



$$s = r \theta$$

$$\theta \text{ in deg.} = \frac{180}{\pi} (\theta \text{ in rad})$$

$$v_t = r \omega$$

$$\omega = \frac{d\theta}{dt}$$

$$\alpha = \frac{d^2\theta}{dt^2}$$

$$a_t = r \alpha$$

$$\omega = \omega_i + \alpha t$$

$$\omega^2 = \omega_i^2 + 2\alpha\theta$$

$$\theta = \omega_i t + \frac{1}{2} \alpha t^2$$

$$F(\text{c.p.}) = \frac{mv_t^2}{r}$$

$$a(\text{c.p.}) = \frac{v_t^2}{r}$$

$$g(r) = G \frac{M}{r^2}$$

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

$$\frac{T^2}{r^3} = \text{Constant}$$

$$\tau = r \times F = r F \sin \theta$$

$$\tau = I \alpha \quad (\text{Analogous to } F = ma)$$

$$I = \sum mr^2$$

$$\text{Rotational KE} = \frac{1}{2} I \omega^2$$

$$L = I \omega \quad (\text{Analogous to } p = mv)$$

$$I_1 \omega_1 = I_2 \omega_2 \quad \text{for } \tau_{net} = 0$$

a = acceleration [ms^{-2}]

a(c.p) = centripetal acceleration [ms^{-2}]

\bar{a} = Average acceleration [ms^{-2}]

a_t = tangential acceleration [ms^{-2}]

F = force [N]

F(c.p) = centripetal force [N]

F_g = gravitational force [N]

F_k = kinetic friction [N]

F_s = static friction [N]

g = acceleration of gravity = 9.8 ms^{-2}

G = gravitational constant = [$\text{Nm}^2\text{kg}^{-2}$]

h = height [m]

I = impulse [kg ms^{-1}]

k = spring constant [Nm^{-1}]

K = kinetic energy [J]

L = angular momentum [$\text{m}^2\text{kgs}^{-1}$]

m = mass [kg]

M = mass [kg]

p = linear momentum [kgms^{-1}]

P = Power

PE = potential energy = [J]

r = radius [m]

R = Normal force (or Reaction force)

[N]

s = distance or arc length [m]

t = time [s]

T = period [s]

u = initial velocity [ms^{-1}]

v = velocity [ms^{-1}]

v_t = tangential velocity [ms^{-1}]

\bar{v} = Average velocity [ms^{-1}]

x = spring extension [m]

W = work [J]

α = angular acceleration [s^{-2}]

μ_k = coefficient of kinetic friction

μ_s = coefficient of static friction

ω = angular velocity [s^{-1}]

ω_i = initial angular velocity [s^{-1}]

Δ = represents change

θ = angular displacement [rad]

τ = torque [mN]

Formula Sheet For Engineering Mechanics

Richard Bailey



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web jun 1 2022 plasmon nanopore detection 1 introduction 1 1 overview in the past one or two decades a variety of techniques and experiments have been developed and designed so far for the detection of a single molecule 1 since the 1950s various experiments have been performed for the study of biomolecules at single molecule level

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web mar 17 2020 single molecule sensing is becoming a major driver in biomarker assays as it is foreseen to enable precision medicine to enter into everyday clinical practice however among the single molecule detection methods proposed

so far only a few are fully exploitable for the ultrasensitive label free assay of biofluids firstly introduced single