

# FORMULA SHEET PHYSICS

2017

## AVERAGE SPEED

- $v_{av} = \frac{\text{total distance}}{\text{total time}}$
- $v_{av} = \frac{s_1 + s_2}{t_1 + t_2}$
- $v_{av} = \frac{v_1 + v_2 + \dots + v_n}{n}$
- $v_{av} = \frac{2v_1 v_2}{v_1 + v_2}$  (if  $s_1 = s_2$ )

## Instantaneous velocity

- $v_{inst} = \lim_{\Delta t \rightarrow 0} \frac{\Delta s}{\Delta t}$

## Instantaneous Acc.

- $a_{inst} = \lim_{\Delta t \rightarrow 0} \frac{\Delta v}{\Delta t}$

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

## Momentum

- $p = mv = \sqrt{2m \cdot E} = \sqrt{2mE}$
- $p = 2K \cdot E$

## Impulse $I = \Delta p = F \cdot t$

## Law of cons. of Mom.

$m_1 u_1 + m_2 u_2 = m_1 v_1 + m_2 v_2$

## Force due to water flow

$F = \frac{\rho}{2} v^2 C_d A$

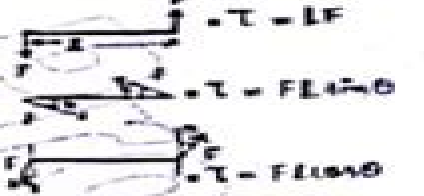
## Projectile motion

- $H = \frac{v_i^2 \sin^2 \theta}{2g}$
- $T = \frac{2v_i \sin \theta}{g}$  (Time of flight)
- $R = \frac{v_i^2 \sin 2\theta}{g}$  (Range)
- $R_{max} = \frac{v_i^2}{g}$  (at  $\theta = 45^\circ$ )
- $v_{fx} = v_i \cos \theta$
- $v_{fy} = v_i \sin \theta - gt$

## Torque

- $\vec{\tau} = \vec{r} \times \vec{F} = rF \sin \theta$
- $\tau = I \alpha = m r^2 \alpha$
- $\tau = \frac{dL}{dt}$

## Couple



## Work

- $W = \vec{F} \cdot \vec{d} = Fd \cos \theta$
- $W = \int \vec{F} \cdot d\vec{s} = \int P \cdot v \cdot dt$
- $W = mgh = \frac{1}{2} kx^2$
- $W = \Delta VA = \frac{1}{2} F \Delta L$

## Energy

- $P \cdot E = mgh = GMm/r$
- $P \cdot E = \frac{1}{2} kx^2 = \Delta VA$
- $K \cdot E = \frac{1}{2} mv^2 = \frac{p^2}{2m} = \frac{p \cdot v}{2}$
- $K \cdot E = \frac{1}{2} m r^2 \omega^2 = \frac{1}{2} I \omega^2$

## Power

- $P = \frac{W}{t} = F \cdot v$
- $P = VI = I^2 R = V^2/R$
- $P = I \omega$

## Angular displacement $\theta$

$\theta = s/r$

## Angular velocity $\omega$

$\omega = \frac{d\theta}{dt} = \frac{v_t}{r} = \frac{2\pi}{T} = 2\pi f$

## Angular acceleration $\alpha$

$\alpha = \frac{d\omega}{dt} = \frac{a_t}{r} = \frac{I}{I}$

## Tangential velocity

$v_t = r\omega$     $\vec{v}_t = \vec{\omega} \times \vec{r}$

## Tangential acceleration

$a_t = r\alpha$     $\vec{a}_t = \vec{\alpha} \times \vec{r}$

## Centripetal force

$F_c = \frac{mv^2}{r} = m\omega^2 r = \frac{GMm}{r^2}$

## Centripetal acceleration

$a_c = \frac{v^2}{r} = \omega^2 r = \frac{GM}{r^2}$

## Gravitational orbits

$F = \left[ \frac{GMm}{4R^2} \right]^{1/2} \propto \frac{1}{R}$

## Instantaneous dist.

- $x = x_0 + vt + \frac{1}{2} at^2$  (w.r.t mean)
- $x = x_0 + vt + \frac{1}{2} at^2$  (w.r.t extreme)

## Velocity

- $v = v_0 + at$
- $v = v_0 \sqrt{1 - \frac{a^2 t^2}{v_0^2}}$
- $v = v_0 \sqrt{1 - \frac{a^2 x^2}{v_0^4}}$
- $T = \frac{2\pi r}{v} \sqrt{1 - \frac{a^2 r^2}{v_0^2}}$

## Acceleration

- $a = -a_0 \sin \theta$
- $a = -\omega^2 x$
- $a = \left( \frac{2\pi}{T} \right)^2 x$

## Mass Spring System

- $\omega = \sqrt{k/m}$     $T = 2\pi \sqrt{\frac{m}{k}}$
- $f = \frac{1}{2\pi} \sqrt{\frac{k}{m}}$     $k = \frac{F}{x} = \frac{mg}{x}$
- $T = 2\pi \sqrt{\frac{l}{g}}$  (vertical spring)

## Simple pendulum

$T = 2\pi \sqrt{\frac{l}{g}}$     $\omega = \sqrt{\frac{g}{l}}$

## Energy Cons. in SHM

- $P \cdot E = \frac{1}{2} kx^2$
- $K \cdot E = \frac{1}{2} m(v^2 - u^2)$
- $K \cdot E = \frac{1}{2} I \omega^2 (1 - \frac{u^2}{v^2})$
- $T \cdot E = P \cdot E_{max} = K \cdot E_{max} = \frac{1}{2} kx_0^2$

## Speed of wave

- $v = f\lambda \Rightarrow f = \frac{v}{\lambda} \Rightarrow \lambda = \frac{v}{f}$
- $v = \sqrt{\frac{T}{\mu}}$  (transverse waves in string)
- $v = \sqrt{\frac{E}{\rho}}$  (longitudinal waves)

## Stationary waves

- $f_n = \frac{v}{2L}$  (closed-closed)
- $f_n = \frac{v}{\lambda_n}$     $\lambda_n = \frac{2L}{n}$     $n = 1, 2, 3, \dots$
- $f_n = \frac{v}{4L}$  (closed-open)
- $f_n = \frac{v}{\lambda_n}$     $\lambda_n = \frac{4L}{n}$     $n = 1, 2, 3, \dots$
- $n = 2n - 1$  (odd)
- $f_c = \frac{f_0}{2}$  (only for fundamental frequency of open)

## Doppler's Effect

- $f' = \left( \frac{v \pm v_o}{v \pm v_s} \right) f$
- $f' = \left( \frac{v \pm v_o}{v} \right) f$  (source at rest)
- $f' = \left( \frac{v}{v \pm v_s} \right) f$  (observer at rest)
- $f' = \left( \frac{v \pm v_o}{v \pm v_s} \right) f$  (both moving)

## Specific heat $c = \frac{Q}{m \Delta T}$

## Latent heat $L = \frac{Q}{m}$

## Young's DSE

- $\frac{\Delta l}{l} = \frac{F}{A} \frac{1}{E}$  (B)
- $\frac{\Delta l}{l} = \left( \frac{1}{2} \right) \frac{1}{E} \frac{d \sin \theta}{d}$  (D)
- Large dist. (approx)  $\left\{ \begin{array}{l} \theta = \frac{m \lambda}{d} \\ \theta = \left( -\frac{1}{2} \right) \frac{m \lambda}{d} \end{array} \right.$
- Large Spring  $\Delta Y = \frac{\Delta l}{l} \frac{Y}{E}$  (C)

## Diffraction Grating

- $m \lambda = d \sin \theta$
- $m \lambda = \frac{d \sin \theta}{n}$
- $d = \frac{a}{n}$     $\lambda = \frac{a}{n} \sin \theta$

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