

Physics FORMULAE

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MECHANICS

avg. speed = $\frac{v+u}{2}$
 $s = \frac{1}{2}(u+v)t$

$v = u + at$
 $s = ut + \frac{1}{2}at^2$
 $v^2 = u^2 + 2as$

THERMAL PHYSICS

$P = \frac{F}{A}$ (Pa) (N/m²)
 $P = \rho gh$

$P_1 V_1 = P_2 V_2$
 $Q = mc \Delta T$ (J)
 $Q = mL$ (heat absorbed)
 specific latent heat (J/kg)

WAVES

$v = f \lambda$ (m)
 $f = \frac{1}{T}$ (Hz) (s)

OBJECT IN EQUILIBRIUM

- Σ clockwise moments = Σ anti-clockwise moments
- Moment on same pivot = Σ upward forces (net force = 0)
- Σ down forces

DYNAMIC PHYSICS

$\rho = \frac{m}{V}$ (kg/m³)
 $W = mg$ (N)
 $F = ma$ (N)
 $W = Fd$ (J)
 $K.E = \frac{1}{2}mv^2$
 $P.E = mgh$ (thermal e-)

$P = \frac{Wd}{t} = \frac{e}{t} = \frac{Q}{t}$ (W)
 $E = \frac{\text{output power}}{\text{input power}} \times 100$
 $T = \frac{F d}{\text{moment of force}}$ (Nm)
 d (m) perpendicular distance from pivot

REFRACTIVE INDEX

$n = \frac{\sin i}{\sin r}$ (air/vacuum)
 $\sin c = \frac{1}{n}$ (medium)
 $n = \frac{c}{v}$ (speed of light in vacuum)
 v (speed of light in medium)

TRANSFORMER EQUATION

$\frac{V_p}{V_s} = \frac{I_s}{I_p}$
 voltage current

ELECTRICITY

$Q = It$ (C) (A) (s)
 $V = IR$ (V) (A) (Ω)
 $Q = It$ (C) (A) (s)
 $E = VIt = I^2 R t = \frac{V^2 t}{R}$ (J) (V) (A) (s) (W) (A) (Ω) (W) (V) (A) (W) (W) (A) (s)
 $P = VI$ (W) (V) (A)
 $V = \frac{Wd}{Q}$ (V) (J) (C)
 * Make sure units are right

And Notetaking Guide Physical Science Notes

Victor M. Corman



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