

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) (kg) (K)

$Q = mL$
latent heat

specific latent heat
(J/kg)

WAVES

$v = f \lambda$
(m/s) (Hz) (m)

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

OBJECT IN EQUILIBRIUM

Σ clockwise moments
= Σ anti-clockwise moments
moment on same pivot

= Σ down forces

= Σ upward forces
(net force = 0)
moment

DYNAMIC PHYSICS

$\rho = \frac{m}{V}$
(kg/m³) (kg) (m³)

$W = mg$
(N) (kg)

$F = ma$
(N) (kg) (m/s²)

$W = Fd$
(J) (N) (m)

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

$P.E = mgh$

thermal e-
 $\frac{Q}{t}$

$P = \frac{Wd}{t} = \frac{e}{t} = \frac{Q}{t}$
(W) (J/s) (C/s)

$E = \frac{\text{output power}}{\text{input power}} \times 100$

$T = \frac{F d}{\text{moment of force}}$
(Nm) (N) (m)

perpendicular distance from pivot

REFRACTIVE INDEX

$n = \frac{\sin i}{\sin r}$ (air/vacuum)
(medium)

$\sin c = \frac{1}{n}$
critical angle

$n = \frac{c}{v}$ (speed of light in vacuum)
(speed of light in medium)

ELECTRICITY

$Q = It$
(C) (A) (s)

$V = IR$
(V) (A) (Ω)

$V = \frac{Wd}{Q}$
(V) (J) (C)

$W = QV$
total work done
(J) (C) (V)

$E = VIt$
(J) (V) (A) (s)

$E = I^2 R t$
(J) (A) (Ω) (s)

$\frac{1}{R} = \frac{1}{R_1} + \frac{1}{R_2}$
(Ω) (Ω) (Ω)

$P = VI$
(W) (V) (A)

* Make sure units are right

TRANSFORMER EQUATION

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

primary coil
secondary coil

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