

Engineering Physics Formulas

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Equations Physics Students End Up Memorizing
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Common geometric Formulas
Circumference = $2\pi r$
Area circle = πr^2
Surface area (sphere) = $4\pi r^2$
Volume (sphere) = $\frac{4}{3}\pi r^3$
Volume (rectangular solid) = $l \cdot w \cdot h$
Velocity Average Velocity = $\frac{v_1 + v_2}{2}$

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Grade School & Engineering Physics Formulas Reference
Force (Newton's 2nd Law)
Velocity (v) Density (ρ) Drag Force Gravitational Force (g) Buoyant Force
Momentum Angular Velocity (ω) Escape Velocity Orbital Velocity Dynamic Viscosity
Kinematic Viscosity Kinetic Energy Rotational Kinetic Energy ...

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In a bar of material with a cross-sectional area A, length L, and a temperature

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difference across the ends of T , there is a heat flow over a time, t , given by these formulas: The pressure, P , and volume, V , of n moles of an ideal gas at temperature T is given by this formula, where R is the gas constant:

~~Physics Equations and Formulas — dummies~~

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The formulas for motion in one dimension (Also called Kinematical equations of motion) are as follows. (Here ' u ' is initial velocity, ' v ' is final velocity, ' a ' is acceleration and t is time): $s = ut + \frac{1}{2} at^2$. $v = u + at$. $v^2 = u^2 + 2as$. v_{av} (Average Velocity) = $(v+u)/2$.

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PLTW, Inc. Engineering Formulas $T F = \text{Efficiency}$ $d = d_{00}$ Energy: Work $W = \text{work}$ $F = \text{force}$ $d = \text{distance}$ Fluid Mechanics $1 T' L$ Power (Guy-L $' L P 1 V 1 = P 2 V 2 B y ' L Q = Av A 1 v 1 = A 2 v 2 + V$ absolute pressure = gauge pressure + atmospheric pressure $P = \text{absolute pressure}$ Force $A = \text{Area}$ $V = \text{volume}$ $T T = \text{absolute temperature}$ $Q = \text{flow rate}$

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where θ is the angle of rotation about an axis defined by a unit vector n . Kinetic energy. $E_k = W = \frac{1}{2} m (v^2 - v_0^2)$ $\{\displaystyle \Delta E_k = W = \frac{1}{2} m (v^2 - v_0^2)\}$ Elastic potential energy. For a stretched spring fixed at one end obeying Hooke's law :

~~List of equations in classical mechanics — Wikipedia~~

Drake equation (aka Green Bank equation) Earth Similarity Index. Einstein's field equation. Einstein – Maxwell – Dirac equations. Euler equations (fluid dynamics) Euler's equations (rigid body dynamics) Relativistic Euler equations. Euler – Lagrange equation. Faraday's law of induction.

~~List of equations — Wikipedia~~

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