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SI Base Units. Prefixes used to designate multiples of a base unit. thermal conversion: expansion $T_T = T_T + t_0$ (liquid) conduction $atent$ heat of vaporization ΔH_{vap} radiation area of a sphere $A = 4\pi r^2$ Ideal gas law $PV = nRT$ It contains more than of the most useful formulas and equations found in undergraduate physics courses, covering mathematics, dynamics and mechanics, quantum physics, thermodynamics, solid state physics, electromagnetism, optics, and astrophysics SI Derived Units. In general, when converting from base units (m, l, g, etc) or derived units (m², m³, m/s, Hz, N, J, V, etc) to a multiple greater (kilo, mega, giga, or tera) than the base or derived unit then divide by the factor Physics Formula Sheet Mechanics Electricity Geometry Trigonometry $v = v_0 + at$ $x = x_0 + v_0t + \frac{1}{2}at^2$ Variables $a =$ acceleration $A =$ amplitude $d =$ distance $E =$ energy $f =$ frequency $F =$ force $I =$ rotational inertia $KE =$ kinetic energy $k =$ spring constant $L =$ angular momentum $l =$ length $m =$ mass $P =$ power $p =$ momentum $r =$ radius T Physics Formulas 4/9/Fluids $\dot{P} = e \dot{Z}$, $\dot{Y}(t) = \dot{Y}(0) + t_1$ change in pressure with depth $\rho = \bullet \bullet \bullet$ (density) Buoyant force $L \dot{s} = t_5 \dot{z} qG =$ weight of displaced fluid Flow rate $\epsilon = + Z$; $Z = +_j$ continuity equation $\dot{Y} Z + Z t + Z + t_5 u Z = \dot{Y} + Z t + t_5 u$ Bernoulli equation Simple Harmonic Motion Temperature: Celsius $\Delta T = \alpha \Delta T$ to Fahrenheit Celsius to Kelvin) conversions specific heat capacity c latent heat of fusion (solid L_f). This article provides a comprehensive physics formulas list, that will act as a ready It contains more than of the most useful formulas and equations found in undergraduate physics courses, covering mathematics, dynamics and mechanics, Physics Formulas 4/9/Fluids $\dot{P} = e \dot{Z}$, $\dot{Y}(t) = \dot{Y}(0) + t_1$ change in pressure with depth $\rho = \bullet \bullet \bullet$ (density) Buoyant force $L \dot{s} = t_5 \dot{z} qG =$ weight of displaced fluid Flow rate $\epsilon =$ Temperature: Celsius $\Delta T = \alpha \Delta T$ to Fahrenheit Celsius to Kelvin) conversions specific heat capacity c latent heat of fusion (solid L_f). Physics Formula Sheet Mechanics Electricity Geometry Trigonometry $v = v_0 + at$ $x = x_0 + v_0t + \frac{1}{2}at^2$ Variables $a =$ acceleration $A =$ amplitude $d =$ distance $E =$ energy $f =$ Physics Formulas List. thermal Physical Science: Tables & Formulas. Learning physics is all about applying concepts to solve problems.

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