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# Physics Equations & Answers (Quick Study Academic)

BASICS			FUNDAMENTAL PHYSICAL CONSTANTS			CONVERSION FACTORS AND ALTERNATE UNITS	
Base Units	Symbol	Unit	Base Units	Symbol	Unit	Unit	Description
Length	$L$	Meter (m)	Mass of electron	$m_e$	$9.11 \times 10^{-31}$ kg	Angle	degrees $360^\circ = 2\pi$ rad
Mass	$M$	Kilogram (kg)	Mass of proton	$m_p$	$1.67 \times 10^{-27}$ kg	Energy	Erg $1 \text{ erg} = 10^{-7} \text{ J}$
Temperature	$T$	Kelvin (K)	Avogadro Constant	$N_A$	$6.02 \times 10^{23} \text{ mol}^{-1}$	Energy	Erg $1 \text{ erg} = 10^{-7} \text{ J}$
Time	$t$	Second (s)	Elementary charge	$e$	$1.60 \times 10^{-19} \text{ C}$	Energy	Electron Volt $1 \text{ eV} = 1.60 \times 10^{-19} \text{ J}$
Electric Current	$I$	Ampere (A) (C/s)	Faraday constant	$F$	$96,485 \text{ C/mol}$	Force	Dyne $1 \text{ dyne} = 10^{-5} \text{ N}$
Derived Units	Symbol	Unit	Speed of light	$c$	$3 \times 10^8 \text{ m/s}$	Volume	Cubic meter $1 \text{ m}^3 = 10^6 \text{ L}$
Acceleration	$a$	$\text{m/s}^2$	Molar Gas Constant	$R$	$8.314 \text{ J/mol}^\circ \text{K}$	Volume	Cubic meter $1 \text{ m}^3 = 10^6 \text{ L}$
Ang. Accel.	$a$	$\text{m/s}^2$	Boltzmann Constant	$k$	$1.38 \times 10^{-23} \text{ J/K}$	Pressure	Dyn $1 \text{ dyn} = 10^{-5} \text{ Pa}$
Ang. Momentum	$L$	$\text{kg m}^2/\text{s}$	Gravitational Constant	$G$	$6.67 \times 10^{-11} \text{ m}^3/\text{kg s}^2$	Length	Angstrom $1 \text{ \AA} = 10^{-10} \text{ m}$
Ang. Velocity	$\omega$	$\text{rad/s}$	Permeability of Space	$\mu_0$	$4\pi \times 10^{-7} \text{ N/A}^2$		
Angle	$\theta$	radian	Permittivity of Space	$\epsilon_0$	$8.85 \times 10^{-12} \text{ C}^2/\text{N m}^2$		
Capacitance	$C$	Farad (F) (C/V)					
Charge	$Q$	Coulomb (C) (A s)					
Density	$\rho$	$\text{kg/m}^3$					
Displacement	$x$	meter (m)					
Electric Field	$E$	V/m					
Electric Flux	$\Phi_E$	V m					
Electromotive Force (EMF)	$\mathcal{E}$	Volt (V)					
Energy	$E$	Joule (J) (kg m <sup>2</sup> /s <sup>2</sup> )					
Entropy	$S$	J/K					
Force	$F$	Newton (N) (kg m/s <sup>2</sup> ) (2 dyn)					
Frequency	$f$	Hertz (Hz) (cycles/sec)					
Heat	$Q$	Joule (J)					
Magnetic Field	$B$	Tesla (T) (Wb/m <sup>2</sup> )					
Magnetic Flux	$\Phi_B$	Weber (Wb) (T m <sup>2</sup> )					
Moment	$p$	kg m/s					
Momentum	$p$	kg m/s					
Power	$P$	Watt (W) (J/s)					
Pressure	$P$	Pascal (Pa) (N/m <sup>2</sup> )					
Resistance	$R$	Ohm ( $\Omega$ ) (V/A)					
Temperature	$T$	Kelvin (K)					
Velocity	$v$	m/s					
Volume	$V$	m <sup>3</sup>					
Wavelength	$\lambda$	meter (m)					
Work	$W$	Joule (J) (N m)					



## Synopsis

Essential tool for physics laws, concepts, variables and equations, including sample problems, common pitfalls and helpful hints.

## Book Information

Series: Quick Study Academic

Pamphlet: 6 pages

Publisher: QuickStudy; Lam Crds edition (February 14, 2006)

Language: English

ISBN-10: 1423201906

ISBN-13: 978-1423201908

Product Dimensions: 8.5 x 11 x 0.1 inches

Shipping Weight: 0.3 ounces (View shipping rates and policies)

Average Customer Review: 4.6 out of 5 stars 67 customer reviews

Best Sellers Rank: #12,689 in Books (See Top 100 in Books) #6 in [Books > Science & Math >](#)

Physics > Mathematical Physics #14 in Ã Â Books > Science & Math > Reference #46

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This study guide is a nice reference to have in my backpack for physics class. Seeing examples of mathematical concepts and theories really helps me learn the material, and the pamphlet format of these study guides is convenient and accessible for referencing when needed.

BarCharts are a great little reference. I would not recommend them as a study aid, but as a quick reference, they are great! I have used them for Chem, Physics, Electronics and Math. They are great for what they are.

Well made and designed.

GREAT

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When you don't have all this committed to memory, then this pamphlet will allow you to refresh and

remember. It is really worth having. I like it a lot.

These items are wonderful to tuck in a textbook or in a three ring binder for a quick handy reference guide. The information is commonly available, but this is an ideal study aid.

well organized, lots of information, a little too much at times to see what you are looking for since its so busy

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