

The book was found

Physics Equations & Answers (Quick Study Academic)

Quick Study

ACADEMIC OUTLINE

Quick Study
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PHYSICS

EQUATIONS & ANSWERS

Essential Tools for Physics Laws, Concepts, Variables and Equations including Sample Problems, Common Pitfalls and Physical Constants

BASICS

A. Units for Physical Quantities

Base Units	Symbol	Unit
Length	L	Meter (m)
Mass	M	Kilogram (kg)
Temperature	T	Kelvin (K)
Time	t	Second (s)
Theory Constant	ϵ	Ampere (A)
Derived Units	Symbol	Unit
Acceleration	a	m/s^2
Ang. Accel.	α	rad/s^2
Ang. Momentum	L	$\text{kg m}^2/\text{s}$
Ang. Velocity	ω	rad/s
Angle	θ	radian
Capacitance	C	Farad (F)
Charge	Q	Coulomb (C)
Density	ρ	kg/m^3
Displacement	x	meter (m)
Electric Field	E	V/m
Electric Flux	Φ_E	$\text{N m}^2/\text{C}$
Electromotive Force (EMF)	$\mathcal{E}$	Volt (V)
Energy	E	Joule (J)
Entropy	S	J/K
Force	F	Newton (N)
Frequency	f	Hertz (Hz)
Heat	Q	Joule (J)
Magnetic Field	B	Tesla (T)
Magnetic Flux	Φ_B	Weber (Wb)
Momentum	p	kg m/s
Power	P	Watt (W)
Pressure	P	Pascal (Pa)
Resistance	R	Ohm (Ω)
Temperature	T	Kelvin (K)
Volume	V	m^3
Wavelength	λ	meter (m)
Work	W	Joule (J)

B. Fundamental Physical Constants

Base Units	Symbol	Unit
Mass of electron	m_e	9.1×10^{-31} kg
Mass of proton	m_p	1.67×10^{-27} kg
Avogadro Constant	N_A	$6.02 \times 10^{23} \text{ mol}^{-1}$
Elementary charge	e	$1.602 \times 10^{-19} \text{ C}$
Faraday constant	F	$96,485 \text{ C/mol}$
Speed of light	c	$3 \times 10^8 \text{ m/s}$
Molar Gas Constant	R	$8.314 \text{ J/mol}^\circ\text{K}$
Boltzmann Constant	k	$1.38 \times 10^{-23} \text{ J/K}$
Gravitational Constant	G	$6.67 \times 10^{-11} \text{ m}^3/\text{kg s}^2$
Permeability of Space	μ_0	$4\pi \times 10^{-7} \text{ N/A}^2$
Permittivity of Space	ϵ_0	$8.85 \times 10^{-12} \text{ F/m}$

C. Conversion Factors and Approximate Values

Unit	Description
Angle	$1 \text{ radian} = 180^\circ = \pi$ rad
Energy	Eq. $1 \text{ eV} = 1.6 \times 10^{-19} \text{ J}$
Energy	Electron Volt $1 \text{ eV} = 1.602 \times 10^{-19} \text{ J}$
Force	Eq. $1 \text{ dyne} = 10^{-5} \text{ N}$
Volume	Eq. $1 \text{ L} = 1 \text{ dm}^3$
Pressure	Eq. $1 \text{ bar} = 10^5 \text{ Pa}$
Length	Angstrom $1 \text{ \AA} = 10^{-10} \text{ m}$

MATHEMATICAL CONCEPTS

A. Vector Algebra

1. **Vector** - Directional character only ($\vec{A}$)
2. **Scalar** - Directionless character only (A)
3. **Unit Vector** ($\hat{A}$) along $\vec{A}$ along $\vec{B}$ along $\vec{C}$ along $\vec{D}$ along $\vec{E}$ along $\vec{F}$ along $\vec{G}$ along $\vec{H}$ along $\vec{I}$ along $\vec{J}$ along $\vec{K}$ along $\vec{L}$ along $\vec{M}$ along $\vec{N}$ along $\vec{O}$ along $\vec{P}$ along $\vec{Q}$ along $\vec{R}$ along $\vec{S}$ along $\vec{T}$ along $\vec{U}$ along $\vec{V}$ along $\vec{W}$ along $\vec{X}$ along $\vec{Y}$ along $\vec{Z}$ along $\vec{a}$ along $\vec{b}$ along $\vec{c}$ along $\vec{d}$ along $\vec{e}$ along $\vec{f}$ along $\vec{g}$ along $\vec{h}$ along $\vec{i}$ along $\vec{j}$ along $\vec{k}$ along $\vec{l}$ along $\vec{m}$ along $\vec{n}$ along $\vec{o}$ along $\vec{p}$ along $\vec{q}$ along $\vec{r}$ along $\vec{s}$ along $\vec{t}$ along $\vec{u}$ along $\vec{v}$ along $\vec{w}$ along $\vec{x}$ along $\vec{y}$ along $\vec{z}$ along $\vec{a}$ along $\vec{b}$ along $\vec{c}$ along $\vec{d}$ along $\vec{e}$ along $\vec{f}$ along $\vec{g}$ along $\vec{h}$ along 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Synopsis

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

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Customer Reviews

Many books will go out of date, from 2006, this pamphlet of Physics Equations & Answers (Quick Study Academic) Pamphlet â “ February 14, 2006 will not. It is a given. It's fact! 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.

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.

Very helpful product. Bought "used", came in "new" shape. Very direct and to-the-point equations and insight. Great help for taking those physics finals and mid-terms or your all-around nerve-killing quiz!

Was a good reference chart to share with my classes and then my son borrowed for his college class. Always recommend you have these quick study charts available. I always think they are a bit

pricey though.

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.

Exactly what my son needed. The pricing could not be beat and the shipping was FAST. It provided the insight and details the teacher was not "TEACHING" the kids.

Physics Equations & Answers (Quick Study Academic) by Bar Charts Inc is what I expected. I bought it as a gift and the receiving individual likes it.

These laminated quick reference sheets are perfect for holding onto and inserting in your notebook. Important information is available immediately.

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