

AP[®] PHYSICS 2 EQUATIONS

FLUID MECHANICS AND THERMAL PHYSICS

$$\rho = \frac{m}{V}$$

$$P = \frac{F}{A}$$

$$P = P_0 + \rho gh$$

$$F_b = \rho Vg$$

$$A_1 v_1 = A_2 v_2$$

$$P_1 + \rho g y_1 + \frac{1}{2} \rho v_1^2 = P_2 + \rho g y_2 + \frac{1}{2} \rho v_2^2$$

$$\frac{Q}{\Delta t} = \frac{kA \Delta T}{L}$$

$$PV = nRT = Nk_B T$$

$$K = \frac{3}{2} k_B T$$

$$W = -P \Delta V$$

$$\Delta U = Q + W$$

- A = area
- F = force
- h = depth
- k = thermal conductivity
- K = kinetic energy
- L = thickness
- m = mass
- n = number of moles
- N = number of molecules
- P = pressure
- Q = energy transferred to a system by heating
- T = temperature
- t = time
- U = internal energy
- V = volume
- v = speed
- W = work done on a system
- y = height
- ρ = density

MODERN PHYSICS

$$E = hf$$

$$K_{\max} = hf - \phi$$

$$\lambda = \frac{h}{p}$$

$$E = mc^2$$

- E = energy
- f = frequency
- K = kinetic energy
- m = mass
- p = momentum
- λ = wavelength
- ϕ = work function

WAVES AND OPTICS

$$\lambda = \frac{v}{f}$$

$$n = \frac{c}{v}$$

$$n_1 \sin \theta_1 = n_2 \sin \theta_2$$

$$\frac{1}{s_i} + \frac{1}{s_o} = \frac{1}{f}$$

$$|M| = \left| \frac{h_i}{h_o} \right| = \left| \frac{s_i}{s_o} \right|$$

$$\Delta L = m\lambda$$

$$d \sin \theta = m\lambda$$

- d = separation
- f = frequency or focal length
- h = height
- L = distance
- M = magnification
- m = an integer
- n = index of refraction
- s = distance
- v = speed
- λ = wavelength
- θ = angle

GEOMETRY AND TRIGONOMETRY

Rectangle

$$A = bh$$

Triangle

$$A = \frac{1}{2}bh$$

Circle

$$A = \pi r^2$$

$$C = 2\pi r$$

Rectangular solid

$$V = \ell wh$$

Cylinder

$$V = \pi r^2 \ell$$

$$S = 2\pi r \ell + 2\pi r^2$$

Sphere

$$V = \frac{4}{3} \pi r^3$$

$$S = 4\pi r^2$$

A = area

C = circumference

V = volume

S = surface area

b = base

h = height

ℓ = length

w = width

r = radius

Right triangle

$$c^2 = a^2 + b^2$$

$$\sin \theta = \frac{a}{c}$$

$$\cos \theta = \frac{b}{c}$$

$$\tan \theta = \frac{a}{b}$$



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Junior High School Mathematics George Albert Wentworth,David Eugene Smith,Joseph Clifton Brown,1918

Catalog of Books and Reports in the Bureau of Mines Technical Library, Pittsburgh, Pa United States. Bureau of Mines. Technical Library, Pittsburgh,1968

Advanced Algebra Joseph Victor Collins,1918 This text is arranged to follow a first year course and meets the requirements in algebra for both college of liberal arts technical schools and high schools with advanced courses The text begins with a review of the first year course which aims to unify arithmetic algebra and plane geometry as effectively as possible The second part of the text advances to treat the remaining topics belonging to elementary algebra and finishes with the topics belonging to advanced algebra The aim of the entire volume is to address all topics with simplicity clearness and conciseness without sacrificing rigor

Items of Interest ,1908

Applied Mechanics Reviews ,1976

Aeronautical Engineering Review ,1957

Records & Briefs ,

A Treatise on Chemical Engineering Applied to the Flow of Industrial Gases, Steam, Water and Liquid Chemicals Geoffrey Martin,1928

The Journal of the National Education Association National Education Association of the United States,1916

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