# AP® PHYSICS 2 EQUATIONS

#### FLUID MECHANICS AND THERMAL PHYSICS

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

$$A = area$$
  
 $F = force$ 

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

$$h = depth$$

$$F = \frac{1}{A}$$

$$P = P_0 + \rho g h$$

$$L = \text{thickness}$$
  
 $m = \text{mass}$ 

$$F_b = \rho Vg$$

$$n = \text{number of moles}$$

$$A_1v_1=A_2v_2$$

$$N =$$
 number of molecules  
 $P =$  pressure

$$P_1 + \rho g y_1 + \frac{1}{2} \rho v_1^2$$

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

$$U = \text{internal energy}$$
  
 $V = \text{volume}$   
 $v = \text{speed}$ 

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

$$W =$$
 work done on a system

$$PV = nRT = Nk_BT$$

$$y = \text{height}$$
  
 $\rho = \text{density}$ 

$$K=\frac{3}{2}k_BT$$

$$\mathbf{W} = -P\Lambda V$$

$$\Delta U = Q + W$$

#### MODERN PHYSICS

$$E = hf$$

$$E = hf$$
  $E = \text{energy}$   
 $K_{\text{max}} = hf - \phi$   $K = \text{kinetic ens}$ 

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

$$p = momentum$$

m = mass

$$E=mc^2$$

$$\lambda$$
 = wavelength

K = kinetic energy

$$\phi =$$
 work function

#### WAVES AND OPTICS

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

$$d = separation$$

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

$$h = \text{height}$$
  
 $L = \text{distance}$ 

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

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

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

$$s = \text{distance}$$
  
 $v = \text{speed}$ 

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

$$\lambda$$
 = wavelength  
 $\theta$  = angle

#### GEOMETRY AND TRIGONOMETRY

$$A = area$$

$$A = bh$$

C = circumferenceV = volume

S = surface areab = base

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

$$h = \text{height}$$

 $\ell = length$ 

$$A = \pi r^2$$
 $C = 2\pi r$ 

$$w = width$$
 $r = radius$ 

Rectangular solid 
$$V = \ell wh$$

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

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

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

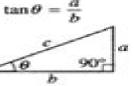
$$S = 2\pi r\ell + 2\pi r^2$$

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

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

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

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



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**N Colangelo** 

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