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Area circle = 2

Surface area (sphere)

= $4 \pi r^2$ Volume (sphere)

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

(rectangular solid) =

$l \cdot w \cdot h = V$

Velocity Average

Velocity = $\frac{\Delta x}{\Delta t}$

2.2

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formulas: The pressure, P , and volume, V , of n moles of an ideal gas at temperature T is given by this formula, where R is the gas constant:

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equations of motion) are as follows. (Here 'u' is initial velocity, 'v' is final velocity, 'a' is acceleration and t is time):
 $s = ut + \frac{1}{2} at^2$
 $v = u + at$
 $v^2 = u^2 + 2as$
 v_{av} (Average Velocity) = $(v+u)/2$.

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$\eta = \frac{W_{out}}{W_{in}}$ Efficiency $d = d$

00 Energy: Work $W =$

work $F =$ force $d =$

distance Fluid

Mechanics 1 $T = \rho L$

Power (Guy-L $P = \rho L v^3$

$\frac{1}{2} \rho v^3 A$ $v_1 = v_2$ Bernoulli's

$Q = Av$ $A_1 v_1 = A_2 v_2$

$v_1^2 + P_1 = v_2^2 + P_2$ absolute

pressure = gauge

pressure +

atmospheric pressure

$P =$ absolute pressure

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Force $A = \text{Area}$ $V =$
volume $T = \text{absolute}$
temperature $Q = \text{flow}$
rate

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where θ is the angle of rotation about an axis defined by a unit vector n . Kinetic

energy. $E_k = W = \frac{1}{2} m (v^2 - v_0^2)$

$$E_k = W = \frac{1}{2} m (v^2 - v_0^2)$$

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$\{0\}^{\{2\}}$ Elastic potential energy. For a stretched spring fixed at one end obeying Hooke's law :

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