

# Engineering Mechanics Dynamics Formula Sheet

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Efficiency  $d = \frac{d_{00}}{100}$  Energy: Work  $W =$   
work  $F =$  force  $d =$  distance Fluid  
Mechanics 1  $T' = L$  Power (Guy-L' L  $P = \frac{1}{2} \rho V^3$   
 $1 = \frac{P}{2} \frac{V}{B} y' = L Q = Av A 1 v 1 = A 2$   
 $v 2 + V$  absolute pressure = gauge  
pressure + atmospheric pressure  $P =$   
absolute pressure Force  $A =$  Area  $V =$   
volume  $T T =$  absolute temperature  $Q =$   
flow ...


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Common geometric Formulas  
Circumference  $= 2\pi r$  Area circle  $= \pi r^2$   
Surface area (sphere)  $= 4\pi r^2$  Volume  
(sphere)  $= \frac{4}{3}\pi r^3$  Volume (rectangular  
solid)  $= l \cdot w \cdot h = \cdot h$  Velocity Average  
Velocity  $\bar{v} = \frac{\Delta x}{\Delta t} \cdot 2.2$

## PHYS 2310 Engineering Physics I

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struggling with dynamics. I have failed  
the first test along with the majority of  
my class (average was a 50%) I ...

## **How to pass dynamics : Engineering Students**

$U_{1-2} = F \cos \alpha \Delta x$ . Work of the weight.  
 $U_{1-2} = -W \Delta y = -W(y_2 - y_1)$  Work of the  
force exerted by a spring. ( $x$  is the  
deformed distance)  $U_{1-2} =$   
 $kx_1 - kx_2$ . Work of a gravitational force ) 1  
1 ( 21 1 2 rr  $U_{1-2} = GMm_{1-2}$ . PRINCIPLE OF



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WORK AND ENERGY:  $T_1 + U_{1-2} = T_2$ .

## **$\Sigma \mathbf{F} = m\mathbf{a}$**

Like these equations are incredibly important in Dynamics. SUVAT Equation 1 As you probably already know, velocity divided by time is equal to acceleration and velocity multiplied by time is equal to displacement.

## **Dynamics | Physics For Idiots**

Classical mechanics is the branch of physics used to describe the motion of macroscopic objects. It is the most familiar of the theories of physics. The concepts it covers, such as mass, acceleration, and force, are commonly used and known. The subject is based upon a three-dimensional Euclidean space with fixed axes, called a frame of reference. The point of concurrency of the three axes is ...

## **List of equations in classical mechanics - Wikipedia**

Rectilinear motion  $v = \frac{ds}{dt}$ .  $a = \frac{dv}{dt}$ .

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$a \, ds = v \, dv$ . velocity  $\int dv$ .  $v$ .

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