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Resultant of Three  
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m 1.u 1 r m 2.u 2 m 1.v 1

r m 2.v 2 D ( D t ) t W P

e h nat wet h f xh fg

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P P tan T V RAM V PL u  
n N R F C r F T sin D....a  
0 A RAM. H RAM A  
PL. L PL F S w sin T F

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applicable formula may  
also be used.  $W = F \cdot s$   
 $1. u \pm m$   $2. u \pm m$   $1. v$   
 $1 \pm m$   $2. v \pm m$   $D(Dt) tW$

$P = e + h \cdot n \cdot w \cdot e \cdot h \cdot f \cdot x \cdot h \cdot f \cdot g$

Inset Input Uiset Output  
 $= / = + / / h F = m \cdot a$

$P = 2 \cdot p \cdot T \cdot n \dots T = F \cdot r \cdot 4 \dots$

$D^2 A A F A F P N F PL$

$PL RAM RAM R p$

$\mu = \mu \dots \mu = \tan q V$

$RAM = V PL \dots n N R = F$

$C \pm F T \sin a \dots a = 0 A$

$RAM.H RAM = A PL.L$

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$PLFS = w \sin \theta$   $FX = F \cos \theta$   
F

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T580(E)(M30)T APRIL

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compatible when any

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science Velocity ratio VR

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= Input speed x input  
size = output speed x  
output size Torque  $T =$   
 $Fr$  Circumference of  
circle  $C = \pi d$  Moment  
of force  $M = Fx$  ( $x$  is  
perpendicular

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$$W = F \cdot s \quad m \cdot 1 \cdot u \quad 1 \pm m \cdot 2 \cdot u$$
$$2 = m \cdot 1 \cdot v \quad 1 \pm m \cdot 2 \cdot v \quad 2$$

$$D(Dt) \quad t \quad W \quad P = e = + h$$

natwet h f xh fg Input

Output h = / = + F = m \cdot a

$$P = 2 \cdot p \cdot T \cdot n \dots T = F \cdot r \quad 4 \dots$$

$$D^2 A \quad A \quad F \quad A \quad F \quad P \quad N \quad F \quad PL$$

$$PL \quad RAM \quad RAM \quad R \quad p$$

$$\mu = \mu \quad === \quad \mu = \tan \alpha \quad V$$

$$RAM = V \quad PL \quad ' \quad n \quad N \quad R = F$$

$$C \pm F \quad T \quad \sin \alpha \dots a = 0 \quad A$$

$$RAM.H \quad RAM = A \quad PL.L$$

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$PL F S = w \sin \theta$   $F X = F \cos \theta$

$F C = w \cos \theta$   $F$

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IFE Formula Sheet v1.4

– Fire Engineering  
Science Page 12 7.

EQUILIBRIUM IN  
MECHANICAL

SYSTEMS Conditions  
for Equilibrium 1. If an  
object is moving in a  
straight line, without  
accelerating or

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decelerating, the total  
(resultant or net) force  
acting on it must be zero.

2.

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[FORMULA  
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Velocity ratio VR =

Input speed x input size  
= output speed x output

size Torque  $T = Fr$

Circumference of circle

$C = \pi d$  Moment of

force  $M = Fx$  (x is

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perpendicular distance)

Principle of moments

$M = 0$  clockwise

moments = anti-

clockwise moments

Conditions of

equilibrium  $F \cdot h = 0$

$F \cdot V = 0$   $M = 0.$

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$^{\circ} \text{ F T F}$  Numbers Less

Than One Numbers

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of 10 Prefix Abbreviation  
Power of 10 Prefix  
Abbreviation 10<sup>-1</sup> deci-  
d 10<sup>1</sup> deca- da 10<sup>-2</sup>  
centi- c 10<sup>2</sup> hecto- h 10<sup>-3</sup>  
milli- m 10<sup>3</sup> kilo- k 10<sup>-6</sup>  
micro-  $\mu$  10<sup>6</sup> Mega- M  
10<sup>-9</sup> nano- n 10<sup>9</sup> Giga-  
G 10<sup>-12</sup> pico- p 10<sup>12</sup>  
Tera- T

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