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 Mode Mean n = number of data values
 max events A and B and C occurring in
 sequence x A $q = 1$ $P(\sim A)$ = probability
 of event A Engineering Formula Sheet
 Probability Conditional Probability
 Binomial Probability (order doesn't
 matter) P k (= binomial probability of k
 successes in n trials p = probability of a
 successEngineering Formula Sheet -
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 Engineering Science Page 14 8.
 ELECTRICITY Where: V = Voltage in volts

I = Current in Amps R = Resistance in
 ohms (Ω) P Where: P = Power in Watts V
 = Voltage in volts I = Current in Amps
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 R Resistivity: Where: R = Resistance in
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 thermal, fluid, force, velocity,
 acceleration & much more.Mechanical
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 Science Page 10 6. MATHEMATICS Area
 of a Circle = 2 or = $\square 2 4$ Where: A =
 Area of circle in metres squared (m²) π
 = Pi (constant - use 3.1416) r = Radius
 of circle in metres d = Diameter of circle
 in metres Volumes Sloping tank = length
 x breadth x average depth FORMULA
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 Engineers Velocity ratio VR = Input speed
 x input size = output speed x output size
 Torque T = Fr Circumference of circle C
 = πd Moment of force M = Fx (x is
 perpendicular distance) Principle of
 moments $\Sigma M = 0$ Σ clockwise moments
 = Σ anti-clockwise moments Conditions
 of equilibrium $\Sigma F. h. = 0$ $\Sigma F. V. = 0$ ΣM
 = 0. Engineering Science Data Booklet
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precedence 24 6. Simple equations 26
 6.1 Expressions, equations and
 ...Science for Engineering - INAOE -
 PEngineering 2019 v1.1. Formula sheet.
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 Authority. Page2 of 4. Formulas —
 Statics. $a^2 = b^2 + c^2$. $a =$
 $\sqrt{b^2 + c^2}$. $b = \sqrt{a^2 - c^2}$.
 $c = \sqrt{a^2 - b^2}$. $h = \frac{b \cdot c}{a}$.
 $\frac{1}{a} + \frac{1}{b} = \frac{1}{c}$. Engineering Formula Sheet -
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 Engineering Physics I Formula Sheets
 Chapters 1-18 Chapter 1/Important
 Numbers Chapter 2 Units for SI Base
 Quantities

Quantity	Unit Name	Unit Symbol
Length	Meter	m
Time	Second	s
Mass (not weight)	Kilogram	kg
Common Conversions	1 kg or 1000 g	or 1 m
	$\Delta \times 10^6$ 1 m	100 cm
	1 inch	2.54 cm

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 r m 2.u 2 m 1.v 1 r m 2.v 2 D (D t) t W P
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 Output / / / K F m.a P 2.S.T.n.....T F .r 4....
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 P tanT V RAM V PL u n N R F C r F T
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 r m 2.u 2 m 1.v 1 r m 2.v 2 D (D t) t W P
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 acceleration & much more.

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Statics. $a^2 = b^2 + c^2$. $a =$
 $\sqrt{b^2 + c^2}$. $\sin^2 \theta + \cos^2 \theta = 1$.
 $\sin \theta = \frac{opposite}{hypotenuse}$. $\cos \theta = \frac{adjacent}{hypotenuse}$. $\tan \theta = \frac{opposite}{adjacent}$.

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Formula Sheets Chapters 1-18 Chapter
 1/Important Numbers Chapter 2 Units for

SI Base Quantities Quantity Unit Name

Unit Symbol Length Meter M Time

Second s Mass (not weight) Kilogram kg

Common Conversions 1 kg or 1 1m 1000

g or m 1 m $\Delta \times 10^6$ 1 m 100 cm 1 inch

2.54 cm

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4. Calculations and evaluation of formulae 16
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 π = Pi (constant - use 3.1416)
 r = Radius of circle in metres
 d = Diameter of circle in metres
 Volumes
 Sloping tank = length x breadth x average depth

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 Torque $T = Fr$
 Circumference of circle $C = \pi d$
 Moment of force $M = Fx$ (x is perpendicular distance)
 Principle of moments $\Sigma M = 0$
 Σ clockwise moments = Σ anti-clockwise moments
 Conditions of equilibrium $\Sigma F. h. = 0$
 $\Sigma F. V. = 0$
 $\Sigma M = 0$.
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