

Engineering Formula Sheet

Circular Shapes

Formulas	Variables
$C = \pi \cdot d$	C = Circumference $\pi = 3.14$ d = Diameter
$A = \pi \cdot r^2$	A = Area r = Radius

Electrical Systems

Formulas	Variables
$V = IR$	V = Voltage I = Current R = Resistance

Right Triangle Ratios

Formulas	Variables
$\text{Sin}\theta = \frac{\text{opposite}}{\text{hypotenuse}}$	$\theta = \text{Angle}$
$\text{Cos}\theta = \frac{\text{adjacent}}{\text{hypotenuse}}$	
$\text{Tan}\theta = \frac{\text{opposite}}{\text{adjacent}}$	

Simple Machines

Formulas	Variables
$\text{AMA} = \frac{F_R}{F_E}$	AMA = Actual Mechanical Advantage F_R = Resistance force F_E = Effort force
$\text{IMA} = \frac{D_E}{D_R}$	IMA = Ideal Mechanical Advantage D_R = Resistance Distance D_E = Effort Distance
Lever IMA = $\frac{LE}{LR}$	LE = Length from fulcrum to effort LR = Length from fulcrum to resistance
Wheel and Axle IMA = $\frac{r_w}{r_a}$	r_w = Wheel radius r_a = Axle radius
Pulley IMA = Total number of strands supporting the load	
Inclined Plane MA = $\frac{L}{H}$	L = Slope length H = Height
Wedge IMA = $\frac{L}{H}$	L = Base length H = Height
Screw IMA = $\frac{C}{\text{Pitch}}$	C = Circumference Pitch = Screw pitch TPI = Threads per inch
Pitch = $\frac{1}{\text{TPI}}$	

Formula Sheet For Engineering Science

David Baud



Formula Sheet For Engineering Science:

Reviewing **Formula Sheet For Engineering Science**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Formula Sheet For Engineering Science**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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