

Engineering Formula Sheet

Circular Shapes

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

Electrical Systems

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

Right Triangle Ratios

Formulas	Variables
$\sin \theta = \frac{\text{opposite}}{\text{hypotenuse}}$	$\theta = \text{Angle}$
$\cos \theta = \frac{\text{adjacent}}{\text{hypotenuse}}$	
$\tan \theta = \frac{\text{opposite}}{\text{adjacent}}$	

Simple Machines

Formulas	Variables
$AMA = \frac{F_R}{F_E}$	AMA = Actual Mechanical Advantage F_R = Resistance force F_E = Effort force
$IMA = \frac{D_E}{D_R}$	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

Victor M. Corman



Formula Sheet For Engineering Science:

Higher National Engineering Curriculum Support Pack Mike Tooley, Lloyd Dingle, 2012-09-10 Used alongside the students text Higher National Engineering 2nd edition this pack offers a complete suite of lecturer resource material and photocopiable handouts for the compulsory core units of the 2003 BTEC Higher Nationals in Engineering Full coverage is given of the common core units for HNC D units 1 3 for all pathways as well as the two different Engineering Principles units unit 5 for mechanical and electrical electronic engineering and the additional unit required at HND for these pathways Engineering Design unit 6 The authors provide all the resources needed by a busy lecturer as well as a bank of student centred practical work and revision material which will enable students to gain the skills knowledge and understanding they require This pack will save a course team many hours work preparing handouts and assignments and is freely photocopiable within the purchasing institution The pack includes Exercises to support and develop work in the accompanying student text Planned projects which will enable students to display a wide range of skills and use their own initiative Reference material for use as hand outs Background on running the new HNC HND courses Tutor s notes supporting activities in the students book and resource pack

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