Engineering Formula Sheet

Circular Shapes

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

Electrical Systems

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

Right Triangle Ratios

Formulas	Variables
$Sin\theta = \dfrac{opposite}{hypotenuse}$ $Cos\theta = \dfrac{adjacent}{hypotenuse}$ $Tan\theta = \dfrac{opposite}{adjacent}$	θ = Angle

Simple Machines

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

Basic Engineering Formulas

Peter I Kattan

Basic Engineering Formulas:

   Engineering Formulas Interactive Frank Sims,1999 With IntellisimTM a powerful interactive math engine developed by Intellipro Inc you can use the CD ROM to quickly perform dynamic calculations and analysis on over 100 of the most popular equations in this book If you re a designer project engineer plant engineer or engineering student you will find the answer when you need it Engineering Formulas Interactive may become the single most useful reference on your bookshelf and in your computer Minimum system requirements Windows 3 1 95 98 NT CD ROM Drive 16MB available RAM 10MB available HD space VGA compatible monitor IntellismTM allows you to change parameters at will calculate results easily graphically plot results evaluate formulas for a range of values and copy formulas and results to clipboard Intellism TM supports algebraic differential and mixed equation systems so you ll be able to customize formulas and modify and combine each formula on the Engineering Formulas Interactive CD ROM with other equations The reference contains over 450 units conversions 180 term definitions plus every significant engineering subject with applicable formulas all arranged alphabetically It also includes properties of materials formulas for geometric figures and formulas for structural sections

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Handbook of Industrial Engineering Equations, Formulas, and Calculations Adedeji B. Badiru,Olufemi A. Omitaomu,2010-09-17 The first handbook to focus exclusively on industrial engineering calculations with a correlation to applications Handbook of Industrial Engineering Equations Formulas and Calculations contains a general collection of the mathematical equations often used in the practice of industrial engineering Many books cover individual areas of engineering

Mechanical Engineering Formulas Pocket Guide Tyler G. Hicks,2003-02-19 THOUSANDS OF MECHANICAL ENGINEERING FORMULAS IN YOUR POCKET AND AT YOUR FINGERTIPS This portable find it now reference contains thousands of indispensable formulas mechanical engineers need for day to day practice It s all here in one compact resource everything from HVAC to stress and vibration equations measuring fatigue bearings gear design simple mechanics and more Compiled by a professional engineer with many years experience the Pocket Guide includes common conversions symbols and vital calculations data You ll find just what you need to solve your problems quickly easily and accurately *Civil Engineering Formulas* Tyler Gregory Hicks,2001 Indispensable portable reference for all practicing civil engineers and students Now you can get a single compilation of all essential civil engineering formulas and equations in one easy to use portable reference More than three quarters of the material in Tyler Hicks Civil Engineering Formulas Pocket Guide is in the form of formulas tables and graphs presented in SI and USCS formats Each chapter offering collections of problems and calculations gives you quick reference to a well defined topic Conversion Factors for Civil Engineering Practice Beam Formulas Column Formulas Piles and Piling Formulas Concrete Formulas Timber Engineering Formulas Surveying Formulas Soil and Earthwork Formulas Building and Structures Formulas Bridge and Suspension Cable Formulas Highway and Road

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   - Chapter 5: Conclusion

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