

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 = $\frac{1}{\text{TPI}}$	

Basic Engineering Formulas

M Walker



Basic Engineering Formulas:

Basic Engineering Calculations for Contractors August W. Domel, Jr., 1997 The primary goal of this book is to present the fundamentals of the technical aspects of residential construction

Engineering Formulas Interactive Frank Sims, 1999 With Intellisim™ 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 Intellisim™ 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 Intellisim™ 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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Civil Engineering Formulas and Equations for Students PETER I. KATTAN,2025-03-23 This is a little book for students who wish to have the essential formulas and equations of geotechnical engineering in a single easily accessible source In about 40 pages the 100 most essential civil engineering formulas are listed Unlike other large books on this topic there is no need to go through hundreds of pages and thousands of formulas for the student to get the basic equations The author has searched several books on engineering formulas and tables and selected only those equations which are essential to the student The civil engineering formulas and equations listed in this book are useful for students and researchers in various fields including geotechnical engineering soil mechanics and foundation analysis etc Only the most elementary and basic topics are covered including formulas for Unified Soil Classification System Rock Classification System Physical Properties of Soils Index Parameters for Soils Soil Indices Engineering Properties of Soils Shear Strength of Cohesive Soils Shear Strength of Cohesionless Soils The Static Cone Penetration Test CPT California Bearing Ratio CBR Soil Permeability Expansive Soils Liquefaction of Soils Types of Footings Foundation Stability Analysis Eccentric Loading Allowable Bearing Pressures Settlement Analysis of Cohesive Soils Three Dimensional Settlement Analyses The Coefficient of Consolidation Settlement Analysis of Sands Standard Penetration Resistance Methods Piles Pile Testing and Pile Design Lateral Pressures on Retaining Walls This is the second book in this series and is dedicated to geotechnical engineering Other volumes will follow in other areas of civil engineering

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