

Plane Geometry

Circle

Circumference = $2\pi r$
Area = πr^2



Ellipse

Area = πab



Rectangle

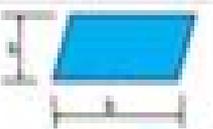
Perimeter = $2a + 2b$
Area = ab



Material Properties

Parallelogram

Area = ab



Triangle

Area = $\frac{1}{2}bh$

$a^2 = b^2 + c^2 - 2bc \cos A$
 $b^2 = a^2 + c^2 - 2ac \cos B$
 $c^2 = a^2 + b^2 - 2ab \cos C$

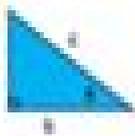


Stress (axial)

$\sigma = \frac{F}{A}$

Right Triangle

$a^2 + b^2 = c^2$
 $\sin \theta = \frac{a}{c}$
 $\cos \theta = \frac{b}{c}$
 $\tan \theta = \frac{a}{b}$



Regular Polygon

Area = $\frac{1}{2}nsl$

n = number of sides



σ = stress
 F = axial force
 A = cross-sectional area

Trapezoid

Area = $\frac{1}{2}(a+b)h$



Strain (axial)

$\epsilon = \frac{\Delta L}{L_0}$

ϵ = strain
 L_0 = original length
 Δ = change in length

Solid Geometry

Cube

Volume = s^3
Surface Area = $6s^2$



Sphere

Volume = $\frac{4}{3}\pi r^3$
Surface Area = $4\pi r^2$



Modulus of Elasticity

Rectangular Prism

Volume = whl
Surface Area = $2(wh + wl + hl)$



Cylinder

Volume = $\pi r^2 h$
Surface Area = $2\pi r^2 + 2\pi rh$



$E = \frac{\sigma}{\epsilon}$

$E = \frac{dF/dL}{(F/L_0)/A}$

Right Circular Cone

Volume = $\frac{\pi r^2 h}{3}$
Surface Area = $\pi r^2 + \pi r l$



Angular Prism

Volume = Al

A = area of base



E = modulus of elasticity
 σ = stress
 ϵ = strain
 A = cross-sectional area
 F = axial force
 L_0 = original length
 Δ = deformation

Pyramid

Volume = $\frac{Ah}{3}$

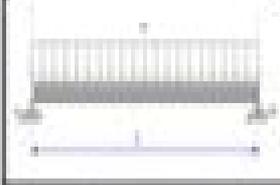
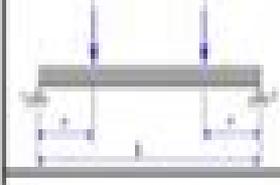
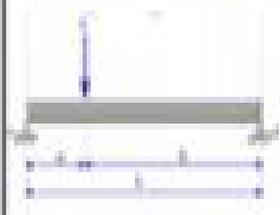
A = area of base



Constants

$g = 9.8 \text{ m/s}^2 = 32.17 \text{ ft/s}^2$
 $G = 6.67 \times 10^{-11} \text{ m}^3/\text{kg s}^2$
 $\pi = 3.14159$

Structural Analysis

Beam Formula	Reaction	Moment	Deflection
	$R_1 = R_2 = \frac{P}{2}$	$M_{max} = \frac{Pa}{2}$ (at point of load)	$\Delta_{max} = \frac{Pa^2}{6EI}$ (at point of load)
	$R_1 = R_2 = \frac{wL}{2}$	$M_{max} = \frac{wL^2}{8}$ (at center)	$\Delta_{max} = \frac{5wL^4}{384EI}$ (at center)
	$R_1 = R_2 = P$	$M_{max} = P_1 a$ (between loads)	$\Delta_{max} = \frac{P_1 a^2}{24EI} (3L^2 - 4a^2)$ (at center)
	$R_1 = \frac{Pb}{L}$ and $R_2 = \frac{Pa}{L}$	$M_{max} = \frac{Pab}{L}$ (at Point of Load)	$\Delta_{max} = \frac{Pab(L^2 - a^2 - b^2)}{24EI}$ (at $x = \sqrt{\frac{a(L^2 - a^2 - b^2)}{L}}$ when $a > b$)

Deformation: Axial

$\Delta = \frac{FL_0}{AE}$

Δ = deformation
 F = axial force
 L_0 = original length
 A = cross-sectional area
 E = modulus of elasticity

Truss Analysis

$2J = M + R$

J = number of joints
 M = number of members
 R = number of reaction forces

All Civil Engineering Equations

Wenbin Ji



All Civil Engineering Equations:

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