

Plane Geometry

Circle

Circumference = $2\pi r$
 Area = πr^2



Ellipse

Area = $\pi a b$



Rectangle


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



Material Properties

Parallelogram


Area = ab



Triangle

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

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

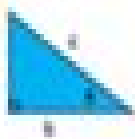


Stress (axial)

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

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 = $\frac{1}{2}n s a_p$

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 = $2\pi r^2 + 2\pi rh$



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

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

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

Right Circular Cone

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



Angular Prism

Volume = ah


A = area of base



Pyramid

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

A = area of base


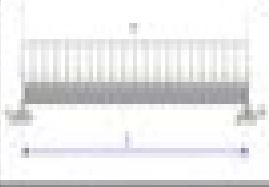




Constants

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

Structural Analysis

Beam Formulas

	<p>Reaction $R_A = R_B = \frac{P}{2}$</p> <p>Moment $M_{max} = \frac{Pb}{4}$ (at point of load)</p> <p>Deflection $\Delta_{max} = \frac{Pb^3}{48EI}$ (at point of load)</p>
	<p>Reaction $R_A = R_B = \frac{wL}{2}$</p> <p>Moment $M_{max} = \frac{wL^2}{8}$ (at center)</p> <p>Deflection $\Delta_{max} = \frac{5wL^4}{384EI}$ (at center)</p>
	<p>Reaction $R_A = R_B = P$</p> <p>Moment $M_{max} = P_1 a$ (between loads)</p> <p>Deflection $\Delta_{max} = \frac{P_1 a^2}{24EI} (3L - 4a^2)$ (at center)</p>
	<p>Reaction $R_A = \frac{Pb}{L}$ and $R_B = \frac{Pa}{L}$</p> <p>Moment $M_{max} = \frac{Pab}{L}$ (at Point of Load)</p> <p>Deflection $\Delta_{max} = \frac{Pab^2}{24EI} \left(\frac{3a+2b}{L} \right)$ (at $x = \sqrt{\frac{a^2 b^2}{3}}$ when $a > b$)</p>

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

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