

Plane Geometry

Circle

Circumference = $2\pi r$
Area = πr^2



Parallelogram

Area = bh



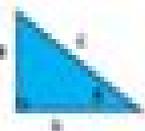
Right Triangle

$a^2 + b^2 = c^2$

$\sin \theta = \frac{a}{c}$

$\cos \theta = \frac{b}{c}$

$\tan \theta = \frac{a}{b}$



Solid Geometry

Cube

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



Rectangular Prism

Volume = lwh
Surface Area = $2(lw + wh + lh)$



Right Circular Cone

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



Pyramid

Volume = $\frac{Ah}{3}$
A = area of base



Ellipse

Area = πab



Rectangle

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



Triangle

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

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



Regular Polygon

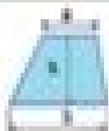
Area = $n \frac{s^2}{4 \tan(\frac{\pi}{n})}$

n = number of sides



Trapezoid

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



Sphere

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



Cylinder

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



Irregular Prism

Volume = Ah

A = area of base



Constants

$g = 9.8 \text{ m/s}^2 = 32.17 \text{ ft/s}^2$

$G = 6.67 \times 10^{-11} \text{ m}^3/\text{kg s}^2$

$\pi = 3.14159$

Material Properties

Stress (axial)

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

$\sigma = \text{stress}$

F = axial force

A = cross-sectional area

Strain (axial)

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

$\epsilon = \text{strain}$

$L_0 = \text{original length}$

$\Delta = \text{change in length}$

Modulus of Elasticity

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

$E = \frac{dF/dL}{(L_1 - L_0)/L_0}$

E = modulus of elasticity

$\sigma = \text{stress}$

$\epsilon = \text{strain}$

A = cross-sectional area

F = axial force

$\Delta = \text{deformation}$

Structural Analysis

Beam Formulas



Reaction

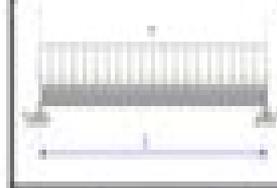
$R_1 = R_2 = \frac{P}{2}$

Moment

$M_{max} = \frac{Pb}{4}$ (at point of load)

Deflection

$\Delta_{max} = \frac{Pb^3}{48EI}$ (at point of load)



Reaction

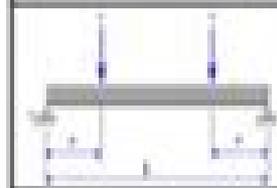
$R_1 = R_2 = \frac{wL}{2}$

Moment

$M_{max} = \frac{wL^2}{8}$ (at center)

Deflection

$\Delta_{max} = \frac{5wL^4}{384EI}$ (at center)



Reaction

$R_1 = R_2 = P$

Moment

$M_{max} = P_1a$ (between loads)

Deflection

$\Delta_{max} = \frac{P_1 a^2 b^2}{3EI} (3a^2 + 4b^2)$ (at center)



Reaction

$R_1 = \frac{Pb}{L}$ and $R_2 = \frac{Pa}{L}$

Moment

$M_{max} = \frac{Pab}{L}$ (at Point of Load)

Deflection

$\Delta_{max} = \frac{Pab(L^2 - a^2 - b^2)}{6EI}$
(at $x = \sqrt{\frac{a^2 b^2}{L}}$ when $a > b$)

Deformation: Axial

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

$\Delta = \text{deformation}$

F = axial force

$L_0 = \text{original length}$

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

Civil Engineering Mathematics Formulas

Anthony S. Fauci



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