

Plane Geometry

Circle

Circumference = $2\pi r$
Area = πr^2



Parallelogram

Area = bh



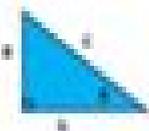
Right Triangle

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

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

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

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



Ellipse

Area = πab



Rectangle

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



Material Properties

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)

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

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

σ = stress

F = axial force

A = cross-sectional area

Strain (axial)

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

ϵ = strain

L_0 = original length

ΔL = change in length

Regular Polygon

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

n = number of sides



Trapezoid

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



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 = $\frac{1}{3}Ah$

A = area of base



Sphere

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



Cylinder

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



Modulus of Elasticity

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

$E = \frac{\Delta F \cdot L_0}{(\Delta L_0 - L_0)A}$

E = modulus of elasticity

σ = stress

ϵ = strain

A = cross-sectional area

ΔF = axial force

ΔL_0 = deformation

Constants

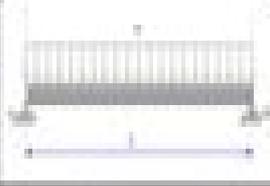
$g = 9.8 \text{ m/s}^2 = 32.17 \text{ ft/s}^2$

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

$\alpha = 1 \text{ rad/s}$

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 $\Delta_{max} = \frac{Pab^2}{24EI} \left(\frac{a+b}{L} \right)$ (at $x = \sqrt{\frac{a^2 b^2}{L}}$ 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

Civil Engineering Mathematics Formulas

LP Steffe



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