Plane Geometry

Ellipse

Area = $\pi a b$

Rectangle

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

Circle

Circumference = $2\pi r$
Area = πr^2

Parallelogram

Area = bh

Triangle

Area = $\frac{1}{2} bh$
$a^2 = b^2 + c^2 - 2bc \cos A$
$b^2 = a^2 + c^2 - 2ac \cos B$
$c^2 = a^2 + b^2 - 2ab \cos C$

Right Triangle

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

Regular Polygons

Area = $\frac{n s^2}{4} \cot \frac{\pi}{n}$

n = number of sides

Trapezoid

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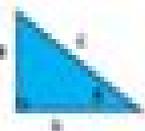
Solid Geometry

Cube

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

Sphere

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

Rectangular Prism

Volume = wdh
Surface Area = $2(wd + wh + dh)$

Cylinder

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

Right Circular Cone

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

Irregular Prism

Volume = Ah

A = area of base

Pyramid

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

A = area of base

Constants

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

Stress (axial)

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

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

Strain (axial)

$$\varepsilon = \frac{\delta}{L_o}$$

ε = strain
L_o = original length
δ = change in length

Modulus of Elasticity

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

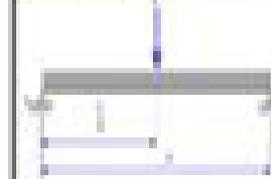$$E = \frac{F L_o}{(L_f - L_o) A}$$

E = modulus of elasticity
σ = stress
ε = strain
A = cross-sectional area
F = axial force
δ = deformation

Structural Analysis

Beam Formulas
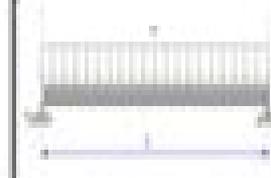
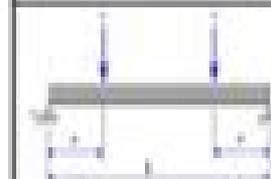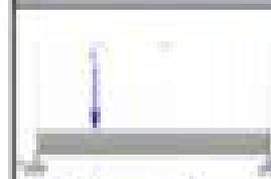|		
Reaction	$R_A = R_B = \frac{P}{2}$	
Moment	$M_{max} = \frac{PL}{4}$	(at point of load)
Deflection	$\Delta_{max} = \frac{PL^3}{48EI}$	(at point of load)
Reaction	$R_A = R_B = \frac{wL}{2}$	
Moment	$M_{max} = \frac{wL^2}{8}$	(at center)
Deflection	$\Delta_{max} = \frac{5wL^4}{384EI}$	(at center)
Reaction	$R_A = R_B = P$	
Moment	$M_{max} = Pa$	(between loads)
Deflection	$\Delta_{max} = \frac{Pa}{24EI}(3L^2 - 4a^2)$	(at center)
Reaction	$R_A = \frac{Pb}{L}$ and $R_B = \frac{Pa}{L}$	
Moment	$M_{max} = \frac{Pab}{L}$	(at Point of Load)
Deflection	$\Delta_{max} = \frac{Pab(a + 2b)\sqrt{3a(a+2b)}}{27EIL}$	
	(at $x = \sqrt{\frac{a(a+2b)}{3}}$ when $a > b$)	

Deformation: Axial

$$\delta = \frac{F L_o}{A E}$$

δ = deformation
F = axial force
L_o = 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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