

## Plane Geometry

Circle

Circumference =  $2\pi r$   
Area =  $\pi r^2$



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 =  $\pi ab$



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)

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

$\sigma$  = stress

F = axial force

A = cross-sectional area

Strain (axial)

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

$\epsilon$  = strain

$L_0$  = original length

$\Delta$  = change in length

Modulus of Elasticity

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

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

E = modulus of elasticity

$\sigma$  = stress

$\epsilon$  = strain

A = cross-sectional area

F = axial force

$\Delta$  = deformation

## Beam Formulas



Reaction

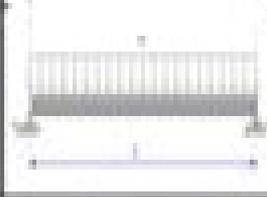
$$R_1 = R_2 = \frac{P}{2}$$

Moment

$$M_{max} = \frac{Pb}{2} \text{ (at point of load)}$$

Deflection

$$\Delta_{max} = \frac{Pb^3}{24EI} \text{ (at point of load)}$$



Reaction

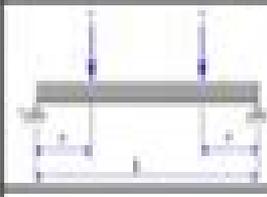
$$R_1 = R_2 = \frac{wL}{2}$$

Moment

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

Deflection

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



Reaction

$$R_1 = R_2 = P$$

Moment

$$M_{max} = P_1 a \text{ (between loads)}$$

Deflection

$$\Delta_{max} = \frac{P_1 a^2}{24EI} (3L^2 - 4a^2) \text{ (at center)}$$



Reaction

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

Moment

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

Deflection

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

## Deformation: Axial

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

$\Delta$  = 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

**Ensheng Dong**



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