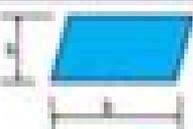## Plane Geometry

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

Parallelogram
Area $= bh$

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

Ellipse
Area $= \pi a b$

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 Polygons
Area $= \dfrac{a^2 n}{4}$
$n =$ number of sides

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

Solid Geometry

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

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

Right Circular Cone
Volume $= \dfrac{\pi r^2 h}{3}$
Surface Area $= \pi r \sqrt{r^2 + h^2}$

Pyramid
Volume $= \dfrac{Ah}{3}$
$A =$ 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 $= 2\pi rh + 2\pi r^2$

Angular Prism
Volume $= Ah$
$A =$ area of base

Material Properties

Stress (axial)
$$\sigma = \frac{F}{A}$$
$\sigma =$ stress
$F =$ axial force
$A =$ cross-sectional area

Strain (axial)
$$\varepsilon = \frac{\delta}{L_o}$$
$\varepsilon =$ strain
$L_o =$ original length
$\delta =$ change in length

Modulus of Elasticity
$$E = \frac{\sigma}{\varepsilon}$$
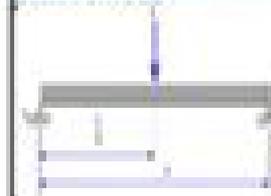$$E = \frac{FL_o}{(L_1 - L_o)A}$$
$E =$ modulus of elasticity
$\sigma =$ stress
$\varepsilon =$ strain
$F =$ axial force
$\delta =$ deformation

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

Structural Analysis

Beam Formulas

	Reaction	$R_A = R_B = \dfrac{P}{2}$
	Moment	$M_{max} = \dfrac{PL}{4}$ (at point of load)
	Deflection	$\Delta_{max} = \dfrac{PL^3}{48EI}$ (at point of load)
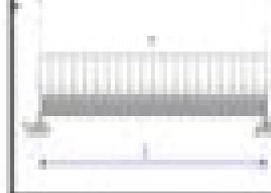
	Reaction	$R_A = R_B = \dfrac{wL}{2}$
	Moment	$M_{max} = \dfrac{wL^2}{8}$ (at center)
	Deflection	$\Delta_{max} = \dfrac{5wL^4}{384EI}$ (at center)
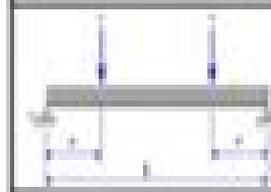
	Reaction	$R_A = R_B = P$
	Moment	$M_{max} = Pa$ (between loads)
	Deflection	$\Delta_{max} = \dfrac{Pa}{24EI}(3L^2 - 4a^2)$ (at center)

	Reaction	$R_A = \dfrac{Pb}{L}$ and $R_B = \dfrac{Pa}{L}$
	Moment	$M_{max} = \dfrac{Pab}{L}$ (at Point of Load)
	Deflection	$\Delta_{max} = \dfrac{Pab(a+2b)\sqrt{3a(a+2b)}}{27EIL}$

$\left(\text{at } x = \sqrt{\dfrac{a(a+2b)}{3}} \text{ when } a > b\right)$

Deformation: Axial
$$\delta = \frac{FL_o}{AE}$$
$\delta =$ 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

[All Civil Engineering Equations](#)

R Bogdan

All Civil Engineering Equations:

The book delves into All Civil Engineering Equations. All Civil Engineering Equations is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into All Civil Engineering Equations, encompassing both the fundamentals and more intricate discussions.

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