

Statics and Strength of Materials Formula Sheet

BY/REVISED - A. Jones

Not given here are the conditions under which the formulae are accurate or useful.

Basic Statics

Free Body Diagram

The FBD is a picture of any system for which you would like to apply equilibrium equations and of all the external forces and moments which act on the system.

Action & Reaction

If \mathbf{A} exerts force \mathbf{F} on \mathbf{B} , then \mathbf{B} exerts force $-\mathbf{F}$ on \mathbf{A} .
If \mathbf{A} exerts moment \mathbf{M} on \mathbf{B} , then \mathbf{B} exerts moment $-\mathbf{M}$ on \mathbf{A} .
(With \mathbf{F} and \mathbf{M} acting on the same line of action.)

Force and Moment Balance

These equations apply to every FBD in equilibrium:

$$\sum \mathbf{F} = \mathbf{0}$$

All external forces

$$\sum \mathbf{M}_{A,C} = \mathbf{0}$$

All external moments about pt C

- The torque $\mathbf{M}_{A,C}$ of a force depends on the reference point C. But, for a body in equilibrium, and for any point C, the sum of all the torques relative to point C must add to zero.
- Writing the force balance equations with a unit vector gives a scalar equation:
 $\sum \mathbf{F} = \mathbf{0} \Rightarrow \sum F_x = 0$
- Writing the moment balance equations with a unit vector gives a scalar equation:
 $\sum \mathbf{M}_{A,C} = \mathbf{0} \Rightarrow \sum M_{A,C} = 0$ and moment about axis is denoted as \mathbf{M} through C or \mathbf{M}_C

Some Statics Facts and Definitions

- The moment of a force is unchanged if the force is slid along the line of action.
- The main purpose for words "centroid", "center", and "average" have to do with finding
- Translational body.** If a body is in equilibrium, not only the forces acting on it show the two forces must be equal and opposite and have a common line of action.
- Translational body.** If a body is in equilibrium but only three forces acting on it show the three forces must be coplanar and have lines of action that intersect at one point.
- Truss.** A collection of weightless two-force bodies connected with hinges (pins) or ball and socket joints (ball).
- Method of joints.** Draw free body diagrams of each of the joints in a truss.
- Method of sections.** Draw free body diagrams of various regions of a truss. Try to make the FBD nice for the sections go through only three bars with unknown forces (pins).
- Constant thickness and force components are often used for truss-like bodies.
- Hydrostatics:** $p = \rho gh$, $\mathbf{F} = \int p dA$

Cross Section Geometry

	Definition	Composite	centroid (x, y, z)	radius of gyration (k)	portable
A	$\int dA$	$\sum A_i$	$(x_1^2 + y_1^2)$	k_{xx}	in
J	$\int r^2 dA$		$(x_1^2 + y_1^2)$	k_{xx}^2	
I	$\int x^2 dA$	$\sum (A_i + d_i^2 A_i)$	$(x_1^2 + y_1^2)$	k_{xx}^2	$k_{xx}^2 + d_i^2$
g	$\frac{\int x dA}{\int dA}$	$\frac{\sum x_i A_i}{\sum A_i}$	centroid	centroid	centroid
Q	$\int y dA = y' A'$	$\sum y_i A_i$			$k_{xx}^2 - y_i^2$

Stress, strain, and Hooke's Law

	Stress	Strain	Hooke's Law
Normal:	$\sigma = F_x / A$	$\epsilon = \Delta L / L_0 = \frac{\Delta L}{L_0}$	$\sigma = E \epsilon$ ($\epsilon = \sigma / E = \sigma / \text{modulus}$) Area = 100% elong
Shear:	$\tau = F_y / A$	$\gamma =$ change of geometry right angle	$\tau = G \gamma$ $\text{mod} = \frac{E}{2(1+\nu)}$

Stress and deformation of some things

	Equilibrium	Geometry	Results
Tension	$\sigma = \frac{F}{A}$	$\epsilon = \frac{\Delta L}{L_0}$	$\sigma = E \epsilon$ $\sigma = \frac{E \Delta L}{L_0} = \Delta L \left(\frac{E}{L_0} \right)$
Torsion	$\tau = \int r \gamma' dz$	$\gamma = \frac{\Delta L}{L_0}$	$\tau = G \gamma$ $\tau = \frac{G \Delta L}{L_0}$
Bending and Shear in Beams	$M = - \int y \sigma dz$ $\frac{dM}{dx} = V$, $\frac{dV}{dx} = -w$ $V = \int -w dx$ $\tau dz = \Delta M / Q(x)$	$\epsilon = -y / \rho = -\frac{y}{R}$ $\epsilon' = \frac{d\epsilon}{dx} = \frac{1}{\rho} = \frac{1}{R}$	$\sigma' = \frac{E}{\rho}$ $\sigma = -\frac{E y}{\rho}$ $\tau = \frac{V Q}{I}$
Pressure Vessels	$\sigma_{\text{hoop}} = r \frac{dp}{dr}$		$\sigma = \frac{p r}{t}$ (hoop stress) $\sigma_2 = \frac{p r}{2t}$ (radial stress) $\sigma_3 = \frac{p r}{2t}$ (axial stress)

Buckling

$$\text{Critical buckling load} = P_{\text{crit}} = \frac{\pi^2 EI}{L^2}$$

pin-ended	clamped-free	clamped-clamped	clamped-free
$k_{eff} = 1$	$k_{eff} = 0.5$	$k_{eff} = 0.5$	$k_{eff} = 2$

Mohr's Circle

Rotating the surface of interest in angle θ in physical space corresponds to a rotation of 2θ on the Mohr's circle in the stress-strain space.

$$\sigma = \frac{\sigma_1 + \sigma_2}{2} + \frac{\sigma_1 - \sigma_2}{2} \cos 2\theta$$

$$\tau = \frac{\sigma_1 - \sigma_2}{2} \sin 2\theta = \sqrt{(\frac{\sigma_1 - \sigma_2}{2})^2 + \tau_{xy}^2}$$

$$\tan 2\theta = \frac{2\tau_{xy}}{\sigma_1 - \sigma_2} = \frac{\tau_{xy}}{\sigma_x - \sigma_y}$$

Miscellaneous

- Power to a shaft: $P = \tau \omega$
- Saint Venant's Principle: Far from the region of loading, the stresses in a structure would be the same under different rigid body or fixed end boundary conditions.

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