

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 A exerts force F on B , then B exerts force $-F$ on A .
If A exerts moment M on B , then B exerts moment $-M$ on A .
(With F and M acting in 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: $\sum F_x = 0$ or $\sum F_y = 0$
- Writing the moment balance equations with a unit vector gives a scalar equation: $\sum M_{A,C} = 0$ or $\sum M_{A,C} = 0$ and moment about axis in direction \mathbf{A} through C is 0

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, not only the forces acting on it show the two forces must be equal 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 (pins).
- 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 Moment and force components on other end: variable forces.
- Hydrostatics: $p = \rho gh$, $F = \int p dA$

Cross Section Geometry

	Definition	Composite	simple (circle, sq, etc)	thin-walled (shell or I-beam)	rectangle
$A =$	$\int dA$	$\sum A_i$	πr^2 or s^2	$2\pi r t$	bs
$J =$	$\int r^2 dA$		$\frac{\pi}{2}(r^4 - r_0^4)$	$2\pi r^3 t$	
$I =$	$\int r^2 dA$	$\sum (I_i + d_i^2 A_i)$	$\frac{\pi}{4}(r^4 - r_0^4)$	$\pi r^3 t$	$\frac{bs^3}{12}$
$Q =$	$\int y dA$	$\sum \frac{y_i A_i}{2}$	center	center	center
$Q =$	$\int y dA = y' A'$	$\sum y_i A_i$			$\frac{b}{2}(y_1^2 - y_2^2)$

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	$\tau = G \gamma$ $200 = \frac{G}{1000}$

Stress and deformation of some things

	Equilibrium	Geometry	Results
Tension	$F = \sigma A$	$\epsilon = \Delta L / L$	$\sigma = \frac{E \Delta L}{L}$ $\Delta L = \frac{FL}{EA}$
Torsion	$T = \int r \tau dA$	$\gamma = \rho \theta / L$	$\tau = \frac{E \theta \rho}{L}$ $\theta = \frac{TL}{GJ}$
Bending and Shear in Beams	$M = - \int y \sigma dA$ $\frac{dM}{dx} = V$, $\frac{dV}{dx} = -w$ $V = \int -w dx$ $\tau dA = dM/dx$	$\epsilon = -y / \rho = -\theta x$ $\theta' = \frac{d\theta}{dx} = \frac{1}{\rho} = -\frac{1}{R}$	$\sigma' = \frac{E}{\rho}$ $\tau = \frac{VQ}{Ib}$
Pressure Vessels	$\sigma_{hoop} = r \theta / \Delta r$		$\sigma = \frac{Pr}{t}$ (hoop) $\sigma_r = \frac{Pr}{2t}$ (radial) $\sigma_c = \frac{Pr}{2t}$ (circumferential)

Buckling

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

pin-ended	clamped-free	clamped-clamped	clamped-free
$k_{eff} = 0$	$k_{eff} = 0.5$	$k_{eff} = 0.75$	$k_{eff} = 1.5$

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 line.

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

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

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

Miscellaneous

- Power to a shaft: $P = T \omega$
- Saint Venant's Principle: Far from the region of loading, the stresses in a structure would be the same as if the stress were replaced with one other load system having the same net force and moment.

Statistics And Strength Of Materials

Leonard Spiegel, George F. Limbrunner



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Applied Statics and Strength of Materials George F. Limbrunner, Craig T. D'Allaird, Leonard Spiegel, 2015 Textbook for Machine Members Strength 10606135 *Applied Statics and Strength of Materials* Thomas Burns, 1997 The text is written at a fundamental level for students of engineering and construction technology programs Equilibrium trusses frames centroids and moment of inertia and their relation to the concepts of vectors and equilibrium are covered in detail

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