

Statics and Strength of Materials Formula Sheet

02/10/2019 — A. Brown

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 mechanical equations and of all the external forces and torques which act on that system.

Action & Reaction

If **A** body exerts force **F** on body **B**, then **B** exerts force **-F** on **A**.
If **A** body exerts torque **M** on body **B**, then **B** exerts torque **-M** on **A**.
(With **F** and **-F** acting on the same line of action.)

Force and Moment Balance

These equations apply to every FBD in equilibrium:

Force Balance

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

All external forces

Moment Balance about pt C

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

All external torques

- The torque $\mathbf{M}_{C,D}$ 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.
- Deriving the force balance equations with a unit vector gives a scalar equation:
 $\mathbf{e} \cdot (\sum \mathbf{F}) = 0 \Rightarrow \sum F_x = 0$
- Deriving the moment balance equations with a unit vector gives a scalar equation:
 $\mathbf{e} \cdot (\sum \mathbf{M}_{C,D}) = 0 \Rightarrow \sum \text{moment about axis in direction } \mathbf{e} \text{ through C} = 0$

Some Statics Facts and Definitions

- The moment of a force is unchanged if the force is slid along the line of action.
- The center of mass is the words "centroid", "barycenter", and "center of mass" have the same meaning.
- Translational body**. If a body is in equilibrium, then only two 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 then 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 (balls).
- Method of joints**. Draw free body diagrams of each of the joints in a truss.
- Method of sections**. Draw free body diagrams of sections across of a truss. Try to make the FBD cuts for the sections go through only three force with unknown forces (pins).
- Continuous Machine and force components** are often used for truss-like bodies.
- Hydrostatics** $p = \rho gh$, $P = \int p dA$

Cross Section Geometry

	Definition	Composite	centroid (x _{cm} , y _{cm} in m)	centroid moment (x _{cm} , y _{cm} in m)	portability
A	$\int dA$	$\sum A_i$	$x = (x_1^2 + x_2^2)$	$2\pi r^2$	disk
J	$\int x^2 dA$		$\frac{1}{2}(x_1^3 + x_2^3)$	$2\pi r^3/4$	
I	$\int x^2 dA$	$\sum (x_1 + x_2^2 A_i)$	$\frac{1}{2}(x_1^3 + x_2^3)$	$\pi r^3/2$	$\pi b^3/12$
y	$\frac{\int x dA}{\int dA}$	$\frac{\sum x_i A_i}{\sum A_i}$	centroid	centroid	centroid
Q	$\int y dA = x^2/2$	$\sum x_1^2 A_i$			$\frac{1}{2}(y_1^2 - y_2^2)$

Stress, strain, and Hooke's Law

	Stress	Strain	Hooke's Law
Normal:	$\sigma = F_{\perp}/A$	$\epsilon = \Delta L/L_0 = \frac{L - L_0}{L_0}$	$\sigma = E\epsilon$ ($\sigma = \sigma(E, \epsilon, \sigma_0, \epsilon_0)$) $F_{\text{max}} = \sigma_0 A_{\text{max}}$
Shear:	$\tau = F_{\parallel}/A$	$\gamma =$ change of formerly right angle	$\tau = G\gamma$ $\sigma_0 = \tau_{\text{max}}$

Stress and deformation of some things

	Equilibrium	Geometry	Results
Tension	$F = \sigma A$	$\epsilon = \Delta L/L$	$\sigma = \frac{F}{A}$ $\epsilon = \frac{\Delta L}{L} = \frac{1}{E} \Delta \sigma$
Torsion	$T = \int \rho r dA$	$\gamma = \rho \phi/L$	$\sigma = \frac{Tr}{J}$ $\tau = \frac{T\rho}{J}$
Bending and Shear in Beams	$M = - \int y \sigma dA$ $\frac{dM}{dx} = V$, $\frac{dV}{dx} = -w$ $V = \int v dA$ $\tau(x,y) = \Delta M Q(x)/J$	$\epsilon = -y/\rho$ or $-\phi x$ $\sigma'' = \frac{d^2 \sigma}{dx^2} = -\frac{1}{\rho} = -\frac{1}{R}$	$\sigma'' = \frac{M}{EI}$ $\sigma = -\frac{My}{I}$ $\tau = \frac{VQ}{J}$
Pressure Vessels	$\sigma_{\text{tension}} = r \frac{dp}{dr}$		$\sigma = \frac{pr}{t}$ (cylinder) $\sigma_1 = \frac{pr}{t}$ (cylinder) $\sigma_2 = \frac{pr}{2t}$ (cylinder)

Buckling

$$\text{Critical buckling load} = F_{\text{buck}} = \frac{\pi^2 EI}{L^2}$$

geometry/load	clamped/free	clamped/clamped	clamped/pinned
L_{eff}/L	1	0.5	0.7

Mohr's Circle

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

$$\begin{aligned} C &= \frac{\sigma_1 + \sigma_2}{2} = \frac{\sigma_x + \sigma_y}{2} \\ R &= \frac{\sigma_1 - \sigma_2}{2} = \sqrt{(\sigma_x - \sigma_y)^2 + \tau_{xy}^2} = \sqrt{\left(\frac{\sigma_1 - \sigma_2}{2}\right)^2 + \tau_{xy}^2} \\ \tan 2\theta &= \frac{\tau_{xy}}{\frac{\sigma_1 - \sigma_2}{2}} = \frac{2\tau}{\sigma_1 - \sigma_2} \end{aligned}$$

Miscellaneous

- Power to a shaft**: $P = T\omega$
- Saint Venant's Principle**. For from the region of loading, the stresses in a structure would only change slightly in a fixed system were replaced with any other load system having the same net force and moment.

Statistics And Strength Of Materials

John H. Jackson, Harold G. Wirtz



Statistics And Strength Of Materials:

Applied Statics and Strength of Materials Leonard Spiegel, George F. Limbrunner, 2004 The fourth edition of *Applied Statics and Strength of Materials* presents an elementary analytical and practical approach to the principles and physical concepts of statics and strength of materials. It is written at an appropriate mathematics level for engineering technology students using algebra, trigonometry, and analytic geometry. A knowledge of calculus is not required for understanding the text or for working the problems. The book is intended primarily for use in two-year or four-year technology programs in engineering, construction, or architecture. Much of the material has been classroom tested in our Accreditation Board for Engineering and Technology (ABET) accredited engineering technology programs as well as in our American Council for Construction Education (ACCE) accredited construction technology program. The text can also serve as a concise reference guide for undergraduates in a first Engineering Mechanics Statics and or Strength of Materials course in engineering programs. Although written primarily for the technology student, it could also serve as a valuable guide for practicing technologists and technicians as well as for those preparing for state licensing exams for professional registration in engineering, architecture, or construction. The emphasis of the book is on the mastery of basic principles, since it is this mastery that leads to successful solutions of real-life problems. This emphasis is achieved through abundant worked-out examples, a logical and methodical presentation, and a topical selection geared to student needs. The problem-solving method that we emphasize is a consistent, comprehensive, step-by-step approach. The principles and applications, both examples and problems presented, are applicable to many fields of engineering technology, among them civil, mechanical, construction, architectural, industrial, and manufacturing. This fourth edition was prepared with the objective of updating the content where necessary and rearranging and revising some of the material to enhance the teaching aspects of the text. While the primary unit system remains the U.S. Customary System, metric SI units continue to be used throughout the text, and the examples and problems reflect a mix of the two measurement systems. The homework problem sets have some additions and some deletions, and some other problems were revised. The book includes the following features: Each chapter is written to introduce more complex material gradually. Problems are furnished at the end of each chapter and are grouped and referenced to a specific section. These are then followed by a group of supplemental problems provided for review purposes. Generally, problems are arranged in order of increasing difficulty. A summary at the end of each chapter presents a thumbnail sketch of the important concepts presented in the chapter. Useful tables of properties of areas and conversion factors for U.S. Customary SI conversion are printed inside the covers for easy access. Most chapters contain computer problems following the section problems. These problems require students to develop computer programs to solve problems pertinent to the topics of the chapter. Any appropriate computer software may be used. The computer problems are another tool with which to reinforce students' understanding of the concepts under consideration. Answers to selected problems are provided at the back of the

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Table of Contents Statistics And Strength Of Materials

1. Understanding the eBook Statistics And Strength Of Materials
 - The Rise of Digital Reading Statistics And Strength Of Materials
 - Advantages of eBooks Over Traditional Books
2. Identifying Statistics And Strength Of Materials
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Statistics And Strength Of Materials
 - User-Friendly Interface
4. Exploring eBook Recommendations from Statistics And Strength Of Materials
 - Personalized Recommendations
 - Statistics And Strength Of Materials User Reviews and Ratings
 - Statistics And Strength Of Materials and Bestseller Lists
5. Accessing Statistics And Strength Of Materials Free and Paid eBooks
 - Statistics And Strength Of Materials Public Domain eBooks
 - Statistics And Strength Of Materials eBook Subscription Services
 - Statistics And Strength Of Materials Budget-Friendly Options
6. Navigating Statistics And Strength Of Materials eBook Formats

- ePub, PDF, MOBI, and More
- Statistics And Strength Of Materials Compatibility with Devices
- Statistics And Strength Of Materials Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Statistics And Strength Of Materials
 - Highlighting and Note-Taking Statistics And Strength Of Materials
 - Interactive Elements Statistics And Strength Of Materials
- 8. Staying Engaged with Statistics And Strength Of Materials
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Statistics And Strength Of Materials
- 9. Balancing eBooks and Physical Books Statistics And Strength Of Materials
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Statistics And Strength Of Materials
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Statistics And Strength Of Materials
 - Setting Reading Goals Statistics And Strength Of Materials
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Statistics And Strength Of Materials
 - Fact-Checking eBook Content of Statistics And Strength Of Materials
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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