

# Fundamental Equations of Mechanics of Materials

## Axial Load

Normal Stress

$$\sigma = \frac{N}{A}$$

Displacement

$$\delta = \int_0^L \frac{N(x)dx}{A(x)E}$$

$$\delta = \sum \frac{NL}{AE}$$

$$\delta_T = \alpha \Delta T L$$

## Torsion

Shear stress in circular shaft

$$\tau = \frac{T\rho}{J}$$

where

$$J = \frac{\pi}{2} r^4 \quad \text{solid cross section}$$

$$J = \frac{\pi}{2} (r_o^4 - r_i^4) \quad \text{tubular cross section}$$

Power

$$P = T\omega = 2\pi nT$$

Angle of twist

$$\phi = \int_0^L \frac{T(x)dx}{J(x)G}$$

$$\phi = \sum \frac{TL}{JG}$$

Average shear stress in a thin-walled tube

$$\tau_{avg} = \frac{T}{2\pi A_m}$$

Shear Flow

$$q = \tau_{avg}t = \frac{T}{2A_m}$$

## Bending

Normal stress

$$\sigma = \frac{My}{I}$$

Unsymmetric bending

$$\sigma = -\frac{M_x y}{I_x} + \frac{M_y x}{I_y} \quad \tan \alpha = \frac{I_x}{I_y} \tan \theta$$

## Shear

Average direct shear stress

$$\tau_{avg} = \frac{V}{A}$$

Transverse shear stress

$$\tau = \frac{VQ}{It}$$

Shear flow

$$q = \tau t = \frac{VQ}{I}$$

## Stress in Thin-Walled Pressure Vessel

Cylinder

$$\sigma_1 = \frac{Pr}{t} \quad \sigma_2 = \frac{Pr}{2t}$$

Sphere

$$\sigma_1 = \sigma_2 = \frac{Pr}{2t}$$

## Stress Transformation Equations

$$\sigma_{x'} = \frac{\sigma_x + \sigma_y}{2} + \frac{\sigma_x - \sigma_y}{2} \cos 2\theta + \tau_{xy} \sin 2\theta$$

$$\tau_{x'y'} = -\frac{\sigma_x - \sigma_y}{2} \sin 2\theta + \tau_{xy} \cos 2\theta$$

Principal Stress

$$\tan 2\theta_p = \frac{\tau_{xy}}{(\sigma_x - \sigma_y)/2}$$

$$\sigma_{1,2} = \frac{\sigma_x + \sigma_y}{2} \pm \sqrt{\left(\frac{\sigma_x - \sigma_y}{2}\right)^2 + \tau_{xy}^2}$$

Maximum in-plane shear stress

$$\tan 2\theta_s = -\frac{(\sigma_x - \sigma_y)/2}{\tau_{xy}}$$

$$\tau_{max} = \sqrt{\left(\frac{\sigma_x - \sigma_y}{2}\right)^2 + \tau_{xy}^2}$$

$$\sigma_{avg} = \frac{\sigma_x + \sigma_y}{2}$$

Absolute maximum shear stress

$$\tau_{abs} = \frac{\sigma_{max}}{2} \quad \text{for } \sigma_{max}, \sigma_{min} \text{ same sign}$$

$$\tau_{abs} = \frac{\sigma_{max} - \sigma_{min}}{2} \quad \text{for } \sigma_{max}, \sigma_{min} \text{ opposite signs}$$

# Mechanical Engineering Formulas Cheat Sheet

**Krista Donaldson**



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This volume examines rhetorical conventions employed in mechanical engineering research to understand the knowledge making principles of the discipline as well as their expression within the research article. In particular, the study analyses the organisational patterns of mechanical engineering research articles using Swales's conceptualisation of moves and steps. In addition, the research identifies the phraseology associated with specific moves and steps. The study draws on a corpus of 120 mechanical engineering research articles equally distributed across two sub-disciplines: mechanical systems and thermal fluids engineering. Three research traditions: experimental, theoretical, and mixed methods, and two publication periods: 2002-2006 and 2012-2016. It adopts an integrated methodology intertwining various approaches and perspectives, including corpus linguistics, move analysis, discourse analysis, and interviews, to address two main strands of research enquiry: i) What are the properties of the rhetorical structures in terms of range, frequency, and length for each section of mechanical engineering research articles? ii) What effect does sub-discipline, research tradition, and publication date have on the rhetorical structure of research articles?

**Prospectuses, courses of instruction, &c.** International correspondence schools, 1901

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**THOUSANDS OF MECHANICAL ENGINEERING FORMULAS IN YOUR POCKET AND AT YOUR FINGERTIPS** This portable find-it-now reference contains thousands of indispensable formulas mechanical engineers need for day-to-day practice. It's all here in one compact resource: everything from HVAC to stress and vibration equations, measuring fatigue, bearings, gear design, simple mechanics, and more. Compiled by a professional engineer with many years' experience, the Pocket Guide includes common conversions, symbols, and vital calculations data. You'll find just what you need to solve your problems quickly, easily, and accurately. *The Engineering Student Survival Guide* Krista Donaldson, 2002  
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**Mechanical Engineering**, 1926  
History of the American Society of Mechanical Engineers  
Preliminary report of the committee on Society history, issued from time to time, beginning with v. 30 Feb. 1908.

*Concept-Based Language Instruction and Genre-Based Second Language Writing Pedagogy* J. Elliott Casal, Lindsey M. Kurtz, Xixin Qiu, 2025-10-29  
Genre-based approaches to second language writing instruction have become a powerful and popular means of assisting second and multilingual writers in learning to engage in professional, pedagogical, and academic genres that are often high stakes. This book presents a framework for teaching second language and multilingual writing that integrates Concept-Based Language Instruction and Genre-Based Writing Pedagogy. The authors present three large-scale implementations within a graduate legal writing context, a cross-disciplinary doctoral research writing context, and a graduate

mechanical engineering context and demonstrate how the pedagogical and theoretical framework is interdisciplinary flexible and comprehensive It provides a means of theorizing researching teaching and assessing the development of second language writer genre knowledge from nascency through expertise and equips second language writing instructors with a theoretical and practical toolkit to empower student writers to be more agentive aware and strategic in their writing

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