

Formula Sheet

Stresses: $\sigma = \frac{P}{A}$ $\sigma = \frac{M \cdot c}{I}$ $\tau = \frac{T \cdot c}{J}$

Unsymmetric bending: $\sigma = \frac{P}{A} + \frac{-M_z y}{I_z} + \frac{-M_y z}{I_y}$ $\tan \phi = \frac{I_z}{I_y} \tan \theta$

Shear stress: $\tau = \frac{VQ}{It}$ $q = \tau \cdot t = \frac{VQ}{I}$

Thin-walled pressure vessel: $\sigma_1 = \frac{Pr}{t}$ $\sigma_2 = \frac{Pr}{2t}$

Stress Transformation:

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

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

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

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

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

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

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

Beam Design: $S_{\text{req}} = \frac{|M|_{\max}}{\sigma_{\text{all}}}$ $r_m = \frac{V_{\max}}{A_{web}}$, where $A_{web} = d \cdot t_{web}$

Yield Criteria:

Von Mises (Distortion Energy): $\sigma_x^2 - \sigma_x \sigma_y + \sigma_y^2 < \sigma_Y^2$

Tresca (Maximal Shear Stress): $| \sigma_x | < \sigma_Y$ and $| \sigma_y | < \sigma_Y$
or $| \sigma_x - \sigma_y | < \sigma_Y$

Strain Gauge Transformation: $\epsilon(\theta) = \epsilon_x \cos^2 \theta + \epsilon_y \sin^2 \theta + \gamma_{xy} \sin \theta \cos \theta$

Generalized Hook's Law:

$$\epsilon_x = \frac{1}{E} [\sigma_x - \nu(\sigma_y + \sigma_z)]$$

$$\gamma_{xy} = \frac{1}{G} \tau_{xy}, \quad \gamma_{yz} = \frac{1}{G} \tau_{yz}, \quad \gamma_{zx} = \frac{1}{G} \tau_{zx}$$

$$\epsilon_y = \frac{1}{E} [\sigma_y - \nu(\sigma_x + \sigma_z)]$$

$$G = \frac{E}{2(1+\nu)}$$

$$\epsilon_z = \frac{1}{E} [\sigma_z - \nu(\sigma_x + \sigma_y)]$$

Plane Stress: $\sigma_x = \frac{E}{(1-\nu^2)} [\epsilon_x + \nu \epsilon_y]$

Mechanical Engineering Formulas Cheat Sheet

Navy Feroz



Mechanical Engineering Formulas Cheat Sheet:

The Academic Discourse of Mechanical Engineering Thi Ngoc Phuong Le, Minh Man Pham, Michael Barlow, 2023-03-15

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?

The Engineering Student Survival Guide Krista Donaldson, 2002. What this book is about is how to learn as much as you can, get good grades, and still have fun while pursuing an engineering degree. You will find strategies to ace tests, learn to love your computer in times of cybercrisis, land most agreeable internships, and pull through the end of the quarter slams in ways that are specific to engineers.

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.

Mechanical Engineering Formulas Pocket Guide Tyler G. Hicks, 2003-02-19. 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.

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