

Formula Sheet

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

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

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:

$$\begin{aligned} \sigma_x' &= \frac{\sigma_x + \sigma_y}{2} + \frac{\sigma_x - \sigma_y}{2} \cos 2\theta + \tau_{xy} \sin 2\theta & \tan 2\theta_p &= \frac{2 \cdot \tau_{xy}}{(\sigma_x - \sigma_y)} \\ \tau_{xy}' &= -\frac{\sigma_x - \sigma_y}{2} \sin 2\theta + \tau_{xy} \cos 2\theta & \tan 2\theta_s &= -\frac{(\sigma_x - \sigma_y)}{2 \cdot \tau_{xy}} \\ \tau_{max} &= \sqrt{\left(\frac{\sigma_x - \sigma_y}{2}\right)^2 + \tau_{xy}^2} & \sigma_{max} &= \frac{\sigma_x + \sigma_y}{2} \\ \sigma_{1,2} &= \frac{\sigma_x + \sigma_y}{2} \pm \sqrt{\left(\frac{\sigma_x - \sigma_y}{2}\right)^2 + \tau_{xy}^2} \end{aligned}$$

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

Yield Criteria:

Von Mises (Distortion Energy): $\sigma_1^2 - \sigma_1 \sigma_2 + \sigma_2^2 < \sigma_Y^2$

Tresca (Maximal Shear Stress): $| \sigma_1 | < \sigma_Y$ and $| \sigma_2 | < \sigma_Y$
or $| \sigma_1 - \sigma_2 | < \sigma_Y$

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:

$$\begin{aligned} \epsilon_x &= \frac{1}{E} [\sigma_x - \nu(\sigma_y + \sigma_z)] & \gamma_{xy} &= \frac{1}{G} \tau_{xy} & \gamma_{yz} &= \frac{1}{G} \tau_{yz} & \gamma_{zx} &= \frac{1}{G} \tau_{zx} \\ \epsilon_y &= \frac{1}{E} [\sigma_y - \nu(\sigma_x + \sigma_z)] & G &= \frac{E}{2(1+\nu)} \\ \epsilon_z &= \frac{1}{E} [\sigma_z - \nu(\sigma_x + \sigma_y)] \end{aligned}$$

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

Basic Formulas For Mechanical Engineering

Majid Yaghoubi, Hamed Tavakoli



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Mechanical Engineering Design (SI Edition) Ansel C. Ugural, 2022-05-17 Mechanical Engineering Design Third Edition SI Version strikes a balance between theory and application and prepares students for more advanced study or professional practice Updated throughout it outlines basic concepts and provides the necessary theory to gain insight into mechanics with numerical methods in design Divided into three sections the text presents background topics addresses failure prevention across a variety of machine elements and covers the design of machine components as well as entire machines Optional sections treating special and advanced topics are also included Features Places a strong emphasis on the fundamentals of mechanics of materials as they relate to the study of mechanical design Furnishes material selection charts and tables as an aid for specific utilizations Includes numerous practical case studies of various components and machines Covers applied finite element analysis in design offering this useful tool for computer oriented examples Addresses the ABET design criteria in a systematic manner Presents independent chapters that can be studied in any order Mechanical Engineering Design Third Edition SI Version allows students to gain a grasp of the fundamentals of machine design and the ability to apply these fundamentals to various new engineering problems [Mechanical Engineering Formulas Pocket Guide](#) Tyler G. Hicks, 2003-02-19 Designed with an on the go format this indispensable guide puts thousands of formulas in the palm of your hand Contains a broad range of formulas everything from HVAC Heating Ventilation Air Conditioning to stress and vibration equations all for measuring fatigue load bearing gear design and simple mechanisms An easy to use guide for all types of mechanics and engineers [Rules of Thumb for Mechanical Engineers](#) J. Edward Pope, 1997 Fluids Heat transfer Thermodynamics Mechanical seals Pumps and compressors Drivers Gears Bearings Piping and pressure vessels Tribology Vibration Materials Stress and strain Fatigue Instrumentation Engineering economics **Mechanical Engineering** Navy Feroz, 2019-10-17 A handbook of Mechanical Engineering For Formulas Mechanical Engineering Formulas all subjects formulas with concepts and course outlines are given here Select your desired course and you can revise all the Formulas within an hour only When you are a mechanical engineer you need to know the important formulas during the competitive exams like GATE ESE and other exams to solve the answers easily using the formula So you must know the all important formulas in the mechanical engineering Subjects This book is specially prepared for mechanical engineers Topics Inside Book Si multiples Basic units distance area volume mass density Thermodynamics Thermal engineering Heat transfer Fluid mechanics Strength of materials Theory of machines Machine design Manufacturing Industrial engineering Get the free kindle version of this book by purchasing the Paperback [Mechanical Engineers' Handbook, Volume 1](#) Myer Kutz, 2015-03-02 Full coverage of materials and mechanical design in engineering Mechanical Engineers Handbook Fourth Edition provides a quick guide to specialized areas you may encounter in your work giving you access to the basics of each and pointing you toward trusted resources for further reading if needed The accessible information inside offers discussions

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