

**Principal Stress & Maximal Shear Stress**

**2-Dimensional**

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

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

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

$$\sigma_{y'} = \frac{\sigma_x + \sigma_y}{2} - \left(\frac{\sigma_x - \sigma_y}{2}\right) \cos 2\theta + \tau_{xy} \sin 2\theta$$

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

$$\theta = \frac{1}{2} \arctan\left(\frac{2\tau_{xy}}{\sigma_x - \sigma_y}\right)$$

$$I_{xx} = \int y^2 dA, I_{yy} = \int x^2 dA, I_{xy} = \int xy dA, I_{xx'} = I_{xx} \cos^2 2\theta - I_{xy} \sin 2\theta + I_{yy} \sin^2 2\theta$$

**3-Dimensional**

Determinants Equations (Stress Invariants)

$$I_1 = \sigma_x + \sigma_y + \sigma_z$$

$$I_2 = \sigma_x \sigma_y + \sigma_x \sigma_z + \sigma_y \sigma_z - \tau_{xy}^2 - \tau_{xz}^2 - \tau_{yz}^2$$

$$I_3 = \sigma_x \sigma_y \sigma_z + 2\tau_{xy} \tau_{yz} \tau_{xz} - \sigma_x \tau_{xy}^2 - \sigma_y \tau_{yz}^2 - \sigma_z \tau_{xz}^2 - 3\tau_{xy} \tau_{yz} \tau_{xz}$$

$\sigma_{1,2,3}$  = roots of  $\lambda^3 - I_1 \lambda^2 + I_2 \lambda - I_3 = 0$ , where  $\sigma_{1,2,3}$  are principal stresses

$$\tau_{max} = \frac{\sigma_1 - \sigma_3}{2}$$

$$\tau_{min} = \frac{\sigma_2 - \sigma_3}{2}$$

$$\tau_{inter} = \frac{\sigma_1 - \sigma_2}{2}$$

**Centroidal Bending**

$$\sigma_{max} = \frac{M y_c}{I_x}$$

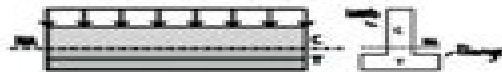
$c$  is distance from NB to point of interest;  $y_c$  is taken for counter-clockwise

$I_x$  is the M.I. about NB

bending stress will be M.I. (symmetrical) axis

$I_{xy}$  is used (symmetrical) stress distribution

tensile bending  $\rightarrow$  positive, compression bending  $\rightarrow$  negative

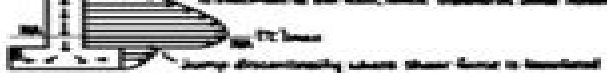


**Shear Flow**

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

Units  $\rightarrow$  Lines, for thickness along axis but I & Q are with respect to I & Q axis (the M.I. axis opposite to V (shear axis) (symmetrical))

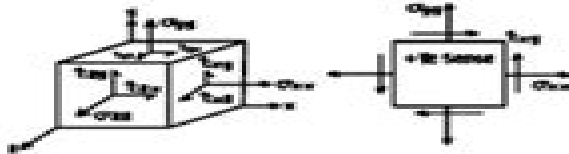
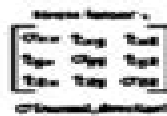
shear stresses show those of NB because first moment of area is maximum at the NB, which, therefore, shear stress is proportional to



shear stress is zero at the top and bottom surfaces because shear stress is maximum at the NB, which, therefore, shear stress is proportional to

**Torsion**

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



**Plane Sectional Properties**

$$C = \frac{I_x - I_y}{2}$$

**Second Moment of Area**

$$I = \int y^2 dA = \int x^2 dA$$

$$I_{xy} = \int xy dA$$

if  $I_{xy}$  is zero (0) is then perpendicular to  $xy$  axis

if  $I_{xy}$  is  $\neq 0$  is  $\neq 0$  axis

**Area Moment of Inertia**

$$I = \int r^2 dA$$

$$I_x = \int y^2 dA$$

**Centroidal Moment of Area**

moment of area about or below point of interest

$$Q = A y_c$$

where  $A$  is the remaining area sectional area about or below that point

and  $y_c$  is the distance between the centroid of that area to the centroid of the entire area section

**2-Dimensional Plane Stress & Strain**

**Stress**

(1) — one dimension compared to other two dimensions is very small

(2) — like a plate or a shell, stress with large constant

(3) — total has to be in the plane of the plate, etc., same way it, same way

**Strain**

(1) — one dimension compared to other two dimensions is very large

(2) — symmetric loading condition

**Stress-Strain**

$$\begin{bmatrix} \sigma_x \\ \sigma_y \\ \tau_{xy} \end{bmatrix} = \begin{bmatrix} C_{11} & C_{12} & C_{13} \\ C_{21} & C_{22} & C_{23} \\ C_{31} & C_{32} & C_{33} \end{bmatrix} \begin{bmatrix} \epsilon_x \\ \epsilon_y \\ \gamma_{xy} \end{bmatrix} \rightarrow \begin{bmatrix} E_{11} & E_{12} & E_{13} \\ E_{21} & E_{22} & E_{23} \\ E_{31} & E_{32} & E_{33} \end{bmatrix} \begin{bmatrix} \epsilon_x \\ \epsilon_y \\ \gamma_{xy} \end{bmatrix} \rightarrow \begin{bmatrix} E_{11} & E_{12} & E_{13} \\ E_{21} & E_{22} & E_{23} \\ E_{31} & E_{32} & E_{33} \end{bmatrix}$$

**Stress-Strain Relationship**

$$E_{11} = \frac{1}{\nu} \left( \frac{1}{1-\nu} \right) \left( \frac{1}{1-\nu} \right) \left( \frac{1}{1-\nu} \right)$$

$$E_{22} = \frac{1}{\nu} \left( \frac{1}{1-\nu} \right) \left( \frac{1}{1-\nu} \right) \left( \frac{1}{1-\nu} \right)$$

$$E_{33} = \frac{1}{\nu} \left( \frac{1}{1-\nu} \right) \left( \frac{1}{1-\nu} \right) \left( \frac{1}{1-\nu} \right)$$

$$E_{12} = \frac{1}{\nu} \left( \frac{1}{1-\nu} \right) \left( \frac{1}{1-\nu} \right) \left( \frac{1}{1-\nu} \right)$$

**Plane Stress Condition**

$$E_{11} = \frac{1}{\nu} \left( \frac{1}{1-\nu} \right) \left( \frac{1}{1-\nu} \right) \left( \frac{1}{1-\nu} \right)$$

$$E_{22} = \frac{1}{\nu} \left( \frac{1}{1-\nu} \right) \left( \frac{1}{1-\nu} \right) \left( \frac{1}{1-\nu} \right)$$

$$E_{33} = -\frac{1}{\nu} \left( \frac{1}{1-\nu} \right) \left( \frac{1}{1-\nu} \right) \left( \frac{1}{1-\nu} \right)$$

$$E_{12} = \frac{1}{\nu} \left( \frac{1}{1-\nu} \right) \left( \frac{1}{1-\nu} \right) \left( \frac{1}{1-\nu} \right)$$

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web mar 26 2023 outlined below are the steps on how to write a sick leave letter 1 select the most appropriate formatting you can type your letter in a 10 to 12 point font and use a legible typeface such as arial times new roman or helvetica in the upper left hand corner of the page write the date you want to submit the letter to your direct supervisor

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web oct 7 2022 as we discussed yesterday i would like to request a formal leave of absence from my job for family reasons i plan to be away from november 2 2022 to december 30 2022 returning to work on january 3 2023 if approved i would be glad to help with a plan to cover my workload in my absence

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web aug 4 2023 subject sick leave request hi insert manager name i m writing to request sick leave for the next two days from date through date i have an emergency that requires medical attention please let me know if you have any questions or

concerns thanks 26 hi i m writing to request sick leave i will be out of the office on date

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web a request for advanced sick leave is essentially a request for sick leave therefore the medical documentation requirements for granting of sick leave apply for details on supporting evidence for the use of sick leave please see our fact sheet entitled sick leave general information

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them of their condition and inability to complete their usual duties

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web jul 31 2023 begin your letter by explicitly stating that you are requesting sick leave mention the specific dates you need to be absent from work provide a valid reason briefly explain the reason for your sick leave you don t need to go into great detail but mention the illness or health condition that necessitates your absence be honest and transparent

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web acknowledge and agree that any sick leave advanced to me is considered a debt and that beginning with the first pay period after the advancement is approved i am required to repay the city of bothell by applying my future sick leave accruals each pay period

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web feb 3 2023 1 review your organization s leave policies before writing your leave application letter check your employee

handbook or consult with human resources to determine what information they need to approve your request for example they may require FMLA paperwork or a doctor's note for official medical leave