

Principal Stress & Maximal Shear Stress

2-Dimensional

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

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

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

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

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

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

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

3-Dimensional

Determinants Equations (Stress Invariants)

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

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

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

$$I_4 = \sigma_x \sigma_y \sigma_z + 2\tau_{xy} \tau_{yz} \tau_{xz} - \sigma_x \tau_{xy}^2 - \sigma_y \tau_{yz}^2 - \sigma_z \tau_{xz}^2 - 3\tau_{xy} \tau_{yz} \tau_{xz}$$

Principal stress of 1, 2, 3, where

$$I_1 = \sigma_1 + \sigma_2 + \sigma_3$$

See ex. for principal direction

$$I_2 = \sigma_1 \sigma_2 + \sigma_1 \sigma_3 + \sigma_2 \sigma_3 - \tau_{12}^2 - \tau_{13}^2 - \tau_{23}^2$$

$$I_3 = \sigma_1 \sigma_2 \sigma_3 + 2\tau_{12} \tau_{13} \tau_{23} - \sigma_1 \tau_{12}^2 - \sigma_2 \tau_{13}^2 - \sigma_3 \tau_{23}^2 - 3\tau_{12} \tau_{13} \tau_{23}$$

Centroidal Bending

$$\sigma_{max} = \sum \frac{M y}{I} + \frac{P}{A}$$

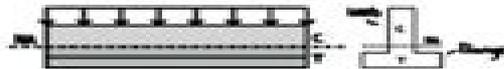
C is distance from NB to point of interest; it differs for circular shaft

I & A will be the same for both

bending stress will be the same (symmetrical axis)

NOA is used (symmetrical) stress distribution

tensile bending → positive, compression bending → negative

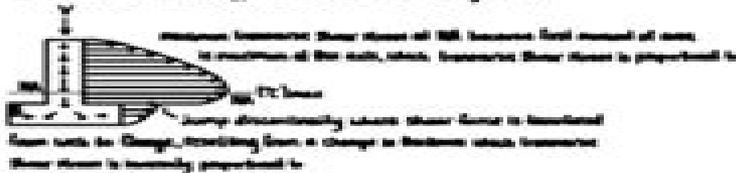


Transverse Shear

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

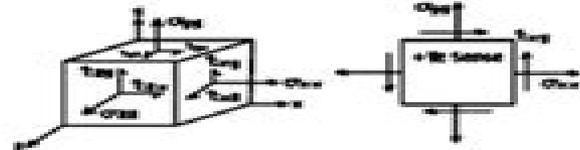
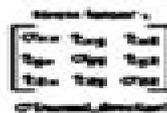
Q → Area, for rectangles along axis but I & Q are with respect to

I & Q will be the same opposite to V (another axis (symmetrical))



Torsion

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



Case Sectional Properties

$$Centroid: \bar{y} = \frac{\sum y_i A_i}{\sum A_i}$$

Second Moment of Area

$$I = \sum I_{xxi} + A_i \bar{y}_i^2$$

$$I_y = \sum I_{yyi} + A_i \bar{x}_i^2$$

if I_{xy}, have that in face perspective of y-z axis

if I_{xy}, " " z-x axis

Area Moment of Inertia

$$J = \sum (I_{xxi} + I_{yyi})$$

I_x = I_{xx} if bar is used as a shaft; hollow one: I_x = I_{xx} - I_{xx'}

First Moment of Area

moment of area above or below point of interest

$$Q = A\bar{y}$$

where A is the remaining case sectional area above or below that point

and \bar{y} is the distance between the centroid of that area to the centroid of the entire case section

2-Dimensional Plane Stress & Strain

Stress

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

like a plate or a shell, stress with large constant

(2) — total has to be in the plane of the plate, etc., same way if stress etc.

Strain

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

(2) — symmetric loading condition

Stress-Strain

A: point of interest

$$\begin{bmatrix} \sigma_x \\ \sigma_y \\ \sigma_z \\ \tau_{xy} \\ \tau_{yz} \\ \tau_{xz} \end{bmatrix} \rightarrow [E]_y = \begin{bmatrix} E_{xx} & \nu_{xy} & \nu_{xz} \\ \nu_{yx} & E_{yy} & \nu_{yz} \\ \nu_{zx} & \nu_{zy} & E_{zz} \end{bmatrix} \rightarrow [E]_y = \begin{bmatrix} E_{xx} & \nu_{xy} & \nu_{xz} \\ \nu_{yx} & E_{yy} & \nu_{yz} \\ \nu_{zx} & \nu_{zy} & E_{zz} \end{bmatrix}$$

Stress-Strain Relationship

$$E_{xx} = \frac{\sigma_x}{\epsilon_{xx}} = \frac{\nu_{xy} \sigma_y}{\epsilon_{xx}} + \frac{\nu_{xz} \sigma_z}{\epsilon_{xx}} + \frac{E_{xx} \sigma_x}{\epsilon_{xx}}$$

$$E_{yy} = \frac{\sigma_y}{\epsilon_{yy}} = \frac{\nu_{yx} \sigma_x}{\epsilon_{yy}} + \frac{\nu_{yz} \sigma_z}{\epsilon_{yy}} + \frac{E_{yy} \sigma_y}{\epsilon_{yy}}$$

$$E_{zz} = \frac{\sigma_z}{\epsilon_{zz}} = \frac{\nu_{zx} \sigma_x}{\epsilon_{zz}} + \frac{\nu_{zy} \sigma_y}{\epsilon_{zz}} + \frac{E_{zz} \sigma_z}{\epsilon_{zz}}$$

$$\tau_{xy} = \frac{E_{xy} \sigma_x + E_{xy} \sigma_y + E_{xz} \sigma_z}{2}$$

C = (1 + \nu)

Plane Stress Condition

$$E_{xx} = \frac{\sigma_x}{\epsilon_{xx}} = \frac{\nu_{xy} \sigma_y}{\epsilon_{xx}} + \frac{E_{xx} \sigma_x}{\epsilon_{xx}}$$

$$E_{yy} = \frac{\sigma_y}{\epsilon_{yy}} = \frac{\nu_{yx} \sigma_x}{\epsilon_{yy}} + \frac{E_{yy} \sigma_y}{\epsilon_{yy}}$$

$$E_{zz} = -\nu_{zx} \frac{\sigma_x}{\epsilon_{zz}} - \nu_{zy} \frac{\sigma_y}{\epsilon_{zz}}$$

$$\tau_{xy} = \frac{E_{xy} \sigma_x + E_{xy} \sigma_y}{2}$$

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