

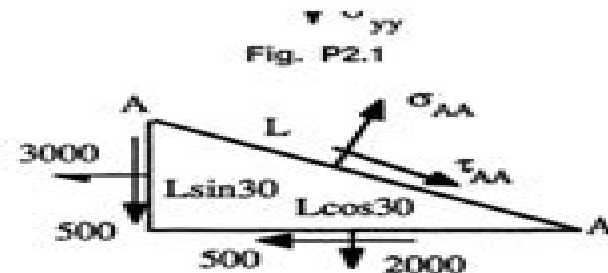
Chapter 2 • Pressure Distribution in a Fluid

2.1 For the two-dimensional stress field in Fig. P2.1, let

$$\begin{aligned}\sigma_{xx} &= 3000 \text{ psf} & \sigma_{yy} &= 2000 \text{ psf} \\ \sigma_{xy} &= 500 \text{ psf}\end{aligned}$$

Find the shear and normal stresses on plane AA cutting through at 30° .

Solution: Make cut "AA" so that it just hits the bottom right corner of the element. This gives the freebody shown at right. Now sum forces normal and tangential to side AA. Denote side length AA as "L."



$$\begin{aligned}\sum F_{nAA} &= 0 = \sigma_{AA}L \\ &\quad - (3000 \sin 30 + 500 \cos 30)L \sin 30\end{aligned}$$

$$\text{Solve for } \sigma_{AA} = \mathbf{2683 \text{ lbf/ft}^2} \quad \text{Ans. (a)}$$

$$\sum F_{tAA} = 0 = \tau_{AA}L - (3000 \cos 30 - 500 \sin 30)L \sin 30 - (500 \cos 30 - 2000 \sin 30)L \cos 30$$

$$\text{Solve for } \tau_{AA} = \mathbf{683 \text{ lbf/ft}^2} \quad \text{Ans. (b)}$$

2.2 For the stress field of Fig. P2.1, change the known data to $\sigma_{xx} = 2000$ psf, $\sigma_{yy} = 3000$ psf, and $\sigma_n(AA) = 2500$ psf. Compute σ_{xy} and the shear stress on plane AA.

Solution: Sum forces normal to and tangential to AA in the element freebody above, with $\sigma_n(AA)$ known and σ_{xy} unknown:

$$\begin{aligned}\sum F_{nAA} &= 2500L - (\sigma_{xy} \cos 30^\circ + 2000 \sin 30^\circ)L \sin 30^\circ \\ &\quad - (2000 \cos 30^\circ - \sigma_{xy} \sin 30^\circ)L \cos 30^\circ = 0\end{aligned}$$

$$\text{Solve for } \sigma_{xy} = (2500 - 500 - 2250)/0.866 = \mathbf{-289 \text{ lbf/ft}^2} \quad \text{Ans. (a)}$$

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Ian John Sobey



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