

Solution Manual for Fluid Mechanics 8th Edition by White
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Chapter 2 · Pressure Distribution in a Fluid

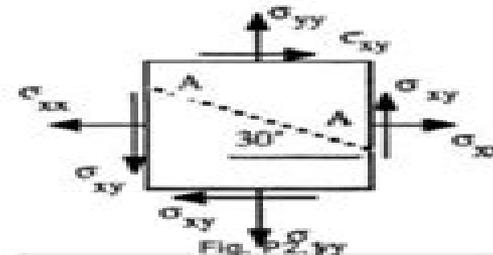
P2.1 For the two-dimensional stress field in Fig. P2.1, let

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

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

Solution: Make cut —AAI 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.

$$\begin{aligned}\sum F_{\text{normal}} &= 0 = \sigma_{AA}L \\ &-(3000 \sin 30 + 500 \cos 30)L \sin 30 \\ &-(2000 \cos 30 + 500 \sin 30)L \cos 30\end{aligned}$$



$$\begin{aligned}\sum F_{\text{normal}} &= 2500L - (\sigma_{xy} \cos 30^\circ + 2000 \sin 30^\circ)L \sin 30^\circ \\ &\quad - (\sigma_{xy} \sin 30^\circ + 3000 \cos 30^\circ)L \cos 30^\circ = 0\end{aligned}$$

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

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Kathleen Armour



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