

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

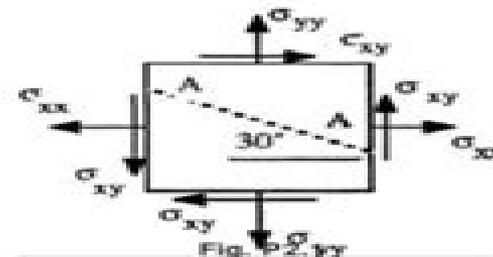
P2.1 For the two-dimensional stress field in Fig. P2.1, let

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

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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N Noddings



Introduction To Fluid Mechanics 8th Edition Solution:

Introduction To Fluid Mechanics 8th Edition Solution Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Introduction To Fluid Mechanics 8th Edition Solution**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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