

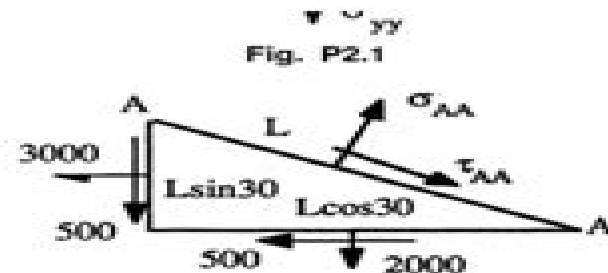
## Chapter 2 • Pressure Distribution in a Fluid

**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  $30^\circ$ .

**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  $\sigma_{xy}$  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  $\sigma_{xy}$  unknown:

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

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

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**Mechanics of Fluids, Seventh Edition** B S Massey, John Ward-Smith, 1998-09-23 Presenting material on the mechanics of fluids which is needed for an honours degree course in civil or mechanical engineering this text also provides relevant coverage of the subject for undergraduate courses in aeronautical and chemical engineering *Fluid Mechanics* Bijay Sultanian, 2015-07-28 Fluid Mechanics An Intermediate Approach addresses the problems facing engineers today by taking on practical rather than theoretical problems Instead of following an approach that focuses on mathematics first this book allows you to develop an intuitive physical understanding of various fluid flows including internal compressible flows with s

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Ferziger, Milovan Perić, Robert L. Street, 2019-08-16 This book is a guide to numerical methods for solving fluid dynamics problems The most widely used discretization and solution methods which are also found in most commercial CFD programs are described in detail Some advanced topics like moving grids simulation of turbulence computation of free surface flows multigrid methods and parallel computing are also covered Since CFD is a very broad field we provide fundamental methods and ideas with some illustrative examples upon which more advanced techniques are built Numerical accuracy and estimation of errors are important aspects and are discussed in many examples Computer codes that include many of the methods described in the book can be obtained online This 4th edition includes major revision of all chapters some new methods are described and references to more recent publications with new approaches are included Former Chapter 7 on solution of the Navier Stokes equations has been split into two Chapters to allow for a more detailed description of several variants of the Fractional Step Method and a comparison with SIMPLE like approaches In Chapters 7 to 13 most examples have been replaced or recomputed and hints regarding practical applications are made Several new sections have been added to cover e g immersed boundary methods overset grids methods fluid structure interaction and conjugate heat transfer

**Applied Mechanics Reviews** ,1964

**English Mechanic and Mirror of Science** ,1875

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