

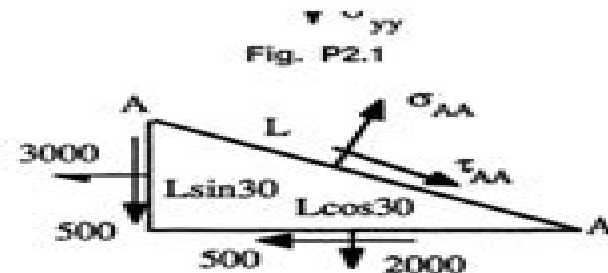
Chapter 2 • Pressure Distribution in a Fluid

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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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

EBOOK: Fluid Mechanics (SI units) White, 2016-02-01 Overview White s Fluid Mechanics offers students a clear and comprehensive presentation of the material that demonstrates the progression from physical concepts to engineering applications and helps students quickly see the practical importance of fluid mechanics fundamentals The wide variety of topics gives instructors many options for their course and is a useful resource to students long after graduation The book s unique problem solving approach is presented at the start of the book and carefully integrated in all examples Students can progress from general ones to those involving design multiple steps and computer usage McGraw Hill Education s Connect is also available as an optional add on item Connect is the only integrated learning system that empowers students by continuously adapting to deliver precisely what they need when they need it how they need it so that class time is more effective Connect allows the professor to assign homework quizzes and tests easily and automatically grades and records the scores of the student s work Problems are randomized to prevent sharing of answers an may also have a multi step solution which helps move the students learning along if they experience difficulty The eighth edition of Fluid Mechanics offers students a clear and comprehensive presentation of the material that demonstrates the progression from physical concepts to engineering applications The book helps students to see the practical importance of fluid mechanics fundamentals The wide variety of topics gives instructors many options for their course and is a useful resource to students long after graduation The problem solving approach is presented at the start of the book and carefully integrated in all examples Students can progress from general examples to those involving design multiple steps and computer usage *Zeitschrift für Angewandte Mathematik und Mechanik. Volume 70, Number 5* H. Heinrich, G. Schmid, 2022-03-21 Keine ausf hrliche Beschreibung f r

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English Mechanic and Mirror of Science ,1875

Advanced Heat

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