

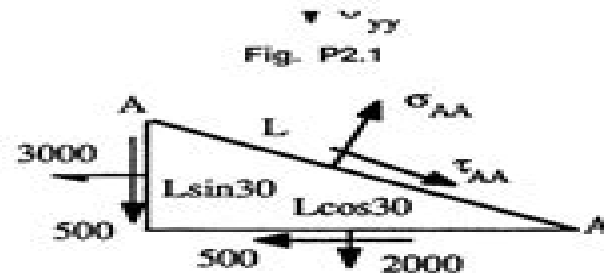
Chapter 2 • Pressure Distribution in a Fluid

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."



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

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

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

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

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

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

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

Fluid Mechanics 7th Edition Ch Solutions

**Albrecht Eberle, Arthur Rizzi, Ernst
Heinrich Hirschel**



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Engineering Fluid Mechanics Donald F. Elger, Barbara A. LeBret, Clayton T. Crowe, John A. Roberson, 2020-07-08
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Fluid Mechanics Bijay K. Soltanian, 2025-01-20
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Fluid Mechanics Ira M. Cohen, Pijush K. Kundu, 2004-05-06
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to Fluid Mechanics Fourth Edition makes learning a visual experience by introducing the types of pr The Finite Element Method for Fluid Dynamics R. L. Taylor,P. Nithiarasu,2024-11-20 The Finite Element Method for Fluid Dynamics provides a comprehensive introduction to the application of the finite element method in fluid dynamics The book begins with a useful summary of all relevant partial differential equations progressing to the discussion of convection stabilization procedures steady and transient state equations and numerical solution of fluid dynamic equations In this expanded eighth edition the book starts by explaining the character based split CBS scheme followed by an exploration of various other methods including SUPG PSPG space time and VMS methods Emphasising the fundamental knowledge mathematical and analytical tools necessary for successful implementation of computational fluid dynamics CFD The Finite Element Method for Fluid Dynamics stands as the authoritative introduction of choice for graduate level students researchers and professional engineers A proven keystone reference in the library for engineers seeking to grasp and implement the finite element method in fluid dynamics Founded by a prominent pioneer in the field this eighth edition has been updated by distinguished academics who worked closely with Olgierd C Zienkiewicz Includes new chapters on data driven computational fluid dynamics and independent adaptive mesh and buoyancy driven flow chapters Introduction to Fluid Mechanics, Sixth Edition William S. Janna,2020-03-31 Introduction to Fluid Mechanics Sixth Edition is intended to be used in a first course in Fluid Mechanics taken by a range of engineering majors The text begins with dimensions units and fluid properties and continues with derivations of key equations used in the control volume approach Step by step examples focus on everyday situations and applications These include flow with friction through pipes and tubes flow past various two and three dimensional objects open channel flow compressible flow turbomachinery and experimental methods Design projects give readers a sense of what they will encounter in industry A solutions manual and figure slides are available for instructors

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