

i.e.

$$1.29 + 8.14 = \sqrt{7^2 + 4\tau_{xy}^2}$$

from which $\tau_{xy} = 3.17 \text{ N/mm}^2$.

The shear force at **P** is equal to Q so that the shear stress at **P** is given by

$$\tau_{xy} = 3.17 = \frac{3Q}{2 \times 150 \times 300}$$

from which

$$Q = 95\,100 \text{ N} = 95.1 \text{ kN.}$$

Solutions to Chapter 2 Problems

S.2.1

The stress system applied to the plate is shown in Fig. S.2.1. The origin, **O**, of the axes may be chosen at any point in the plate; let **P** be the point whose coordinates are (2, 3).

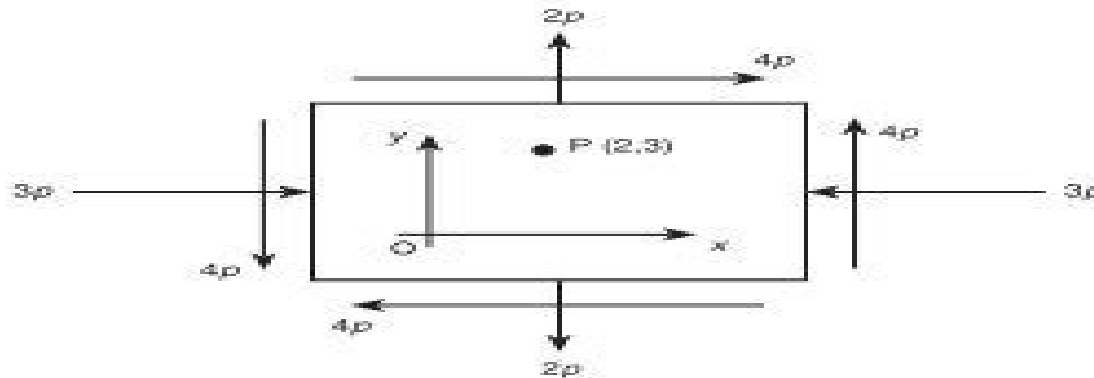


Fig. S.2.1

From Eqs (1.42) in which $\sigma_z = 0$

$$\epsilon_x = -\frac{3p}{E} - \nu \frac{2p}{E} = -\frac{3.5p}{E} \quad (\text{i})$$

$$\epsilon_y = \frac{2p}{E} + \nu \frac{3p}{E} = \frac{2.75p}{E} \quad (\text{ii})$$

Hence, from Eqs (1.27)

$$\frac{\partial u}{\partial x} = -\frac{3.5p}{E} \quad \text{so that} \quad u = -\frac{3.5p}{E}x + f_1(y) \quad (\text{iii})$$

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Judd E. Hollander



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