

2-26. The material deforms into the deformed position shown. Determine (a) the average normal strains along sides  $AB$  and  $BC$  and the shear strain  $\gamma_{AB}$  at  $B$ , and (b) the average normal strain along line  $BD$ .



Referring to Fig. a,

$$L_{AB} = \sqrt{(40)^2 + (30)^2} = 50 \text{ mm}$$

$$L_{BC} = \sqrt{(30)^2 + (40)^2} = 50 \text{ mm}$$

$$L_{BD} = 50 = 25 + 25 = 50 \text{ mm}$$

$$\theta = \tan^{-1} \left( \frac{30}{40} \right) = 36.87^\circ \left( \frac{\pi \text{ rad}}{180^\circ} \right) = 0.6435 \text{ rad}$$

When the plate deforms, the vertical position of point  $B$  and  $C$  do not change.

$$\frac{L_{AB}}{40} = \frac{25}{30}, \quad L_{AB} = 33.3 \text{ mm}$$

$$\frac{L_{BC}}{30} = \frac{25}{40}, \quad L_{BC} = 18.75 \text{ mm}$$

$$L_{BD} = \sqrt{(25)^2 + (33.3)^2} = 41.67 \text{ mm}$$

Then,

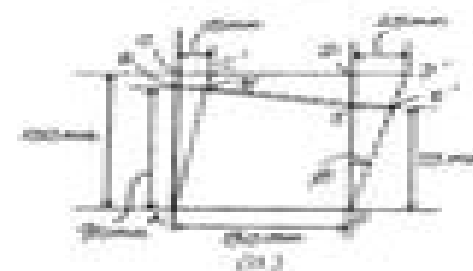
$$(\epsilon_{AB})_{av} = \frac{L_{AB} - L_{AB0}}{L_{AB0}} = \frac{33.3 - 50}{50} = -0.334 \text{ mm/mm} \quad \text{Ans.}$$

$$(\epsilon_{BC})_{av} = \frac{L_{BC} - L_{BC0}}{L_{BC0}} = \frac{18.75 - 50}{50} = -0.625 \text{ mm/mm} \quad \text{Ans.}$$

$$(\epsilon_{BD})_{av} = \frac{L_{BD} - L_{BD0}}{L_{BD0}} = \frac{41.67 - 50}{50} = -0.1667 \text{ mm/mm} \quad \text{Ans.}$$

Referring to Fig. a, the angle at corner  $B$  becomes larger than  $90^\circ$  when the plate deforms. Thus, the shear strain is negative.

$$-0.2475 \text{ rad} \quad \text{Ans.}$$



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**AW Rasmussen**



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