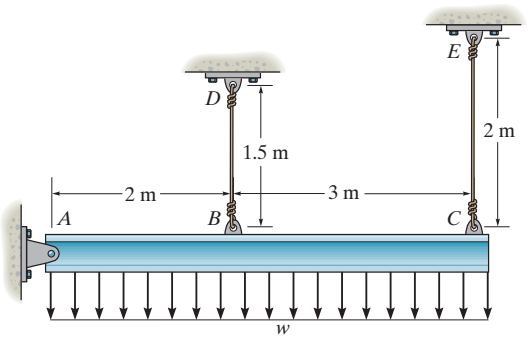
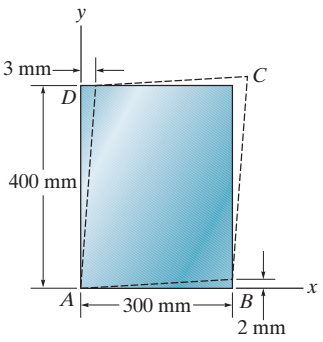
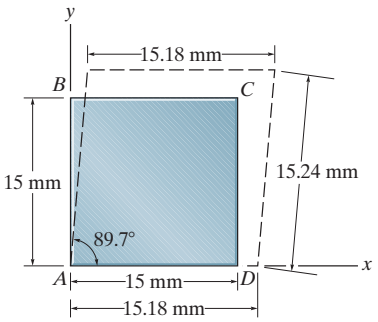
**•2–5.** The rigid beam is supported by a pin at $A$ and wires $BD$ and $CE$. If the distributed load causes the end $C$ to be displaced 10 mm downward, determine the normal strain developed in wires $CE$ and $BD$.




**•2–13.** The piece of rubber is originally rectangular and subjected to the deformation shown by the dashed lines. Determine the average normal strain along the diagonal $DB$ and side $AD$.




**2–23.** A square piece of material is deformed into the dashed parallelogram. Determine the average normal strain that occurs along the diagonals $AC$ and $BD$.




***2–32.** The bar is originally 300 mm long when it is flat. If it is subjected to a shear strain defined by $\gamma_{xy} = 0.02x$, where $x$ is in meters, determine the displacement $\Delta y$ at the end of its bottom edge. It is distorted into the shape shown, where no elongation of the bar occurs in the $x$ direction.