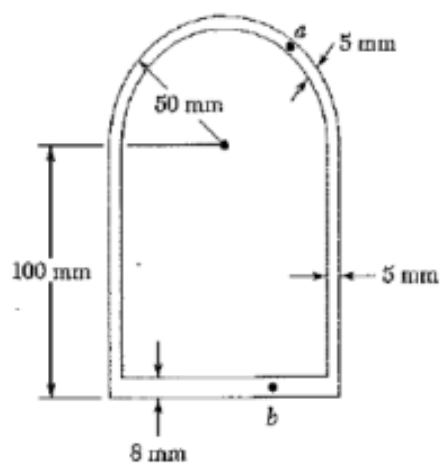


- 3.142** A  $5.6 \text{ kN} \cdot \text{m}$ -torque is applied to a hollow shaft having the cross section shown. Neglecting the effect of stress concentrations, determine the shearing stress at points  $a$  and  $b$ .



**Fig. P3.142**