A 1/32-in.-thick steel blade is wrapped around a drum of 3-ft diameter. Compute the maximum flexural stress in the

Solution.

$$T_{MAX} = \frac{Ec}{d} = \frac{(30\ 000\ \text{ksi})(\frac{1}{64} \text{ in})}{1.54+(\frac{121n}{54})}$$

$$= 26.0\ \text{ksi}$$