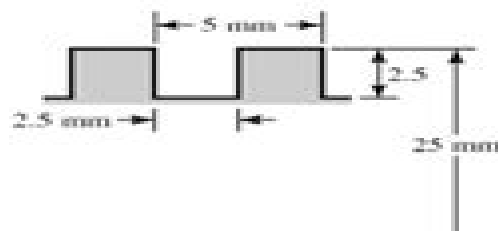


Chapter 8

Note to the Instructor for Probs. 8-41 to 8-44. These problems, as well as many others in this chapter are best implemented using a spreadsheet.

- 8-1** (a) Thread depth = 2.5 mm *Ans.*
 Width = 2.5 mm *Ans.*
 $d_m = 25 - 1.25 - 1.25 = 22.5$ mm
 $d_r = 25 - 5 = 20$ mm
 $l = p = 5$ mm *Ans.*



- (b) Thread depth = 2.5 mm *Ans.*
 Width at pitch line = 2.5 mm *Ans.*
 $d_m = 22.5$ mm
 $d_r = 20$ mm
 $l = p = 5$ mm *Ans.*



- 8-2** From Table 8-1,
 $d_r = d - 1.226\,869\,p$
 $d_m = d - 0.649\,519\,p$
 $\bar{d} = \frac{d - 1.226\,869\,p + d - 0.649\,519\,p}{2} = d - 0.938\,194\,p$

$$A_t = \frac{\pi \bar{d}^2}{4} = \frac{\pi}{4} (d - 0.938\,194\,p)^2 \quad \text{Ans.}$$

- 8-3** From Eq. (c) of Sec. 8-2,

$$\begin{aligned} P_s &= F \frac{\tan \lambda + f}{1 - f \tan \lambda} \\ T_s &= \frac{P_s d_m}{2} = \frac{F d_m}{2} \frac{\tan \lambda + f}{1 - f \tan \lambda} \\ e &= \frac{T_o}{T_s} = \frac{F l / (2\pi)}{F d_m / 2} \frac{1 - f \tan \lambda}{\tan \lambda + f} = \tan \lambda \frac{1 - f \tan \lambda}{\tan \lambda + f} \quad \text{Ans.} \end{aligned}$$

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