

## Chapter 10

10-1



10-2

$$A = Sd^m$$

$$\dim(A_{\text{music}}) = \dim(S) \dim(d^m) = \text{ksi} \cdot \text{in}^m$$

$$\dim(A_{\text{SI}}) = \dim(S_1) \dim(d_1^m) = \text{MPa} \cdot \text{mm}^m$$

$$A_{\text{SI}} = \frac{\text{MPa}}{\text{ksi}} \cdot \frac{\text{mm}^m}{\text{in}^m} A_{\text{music}} = 6.894\,757(25.4)^m A_{\text{music}} \approx 6.895(25.4)^m A_{\text{music}} \quad \text{Ans.}$$

For music wire, from Table 10-4:

$$A_{\text{music}} = 201, \quad m = 0.145; \quad \text{what is } A_{\text{SI}}?$$

$$A_{\text{SI}} = 6.89(25.4)^{0.145}(201) = 2214 \text{ MPa} \cdot \text{mm}^m \quad \text{Ans.}$$

10-3

Given: Music wire,  $d = 0.105$  in, OD = 1.225 in, plain ground ends,  $N_t = 12$  coils.

Table 10-1:

$$N_a = N_t - 1 = 12 - 1 = 11$$

$$L_s = dN_t = 0.105(12) = 1.26 \text{ in}$$

Table 10-4:

$$A = 201, \quad m = 0.145$$

(a) Eq. (10-14):

$$S_{\text{sur}} = \frac{201}{(0.105)^{0.145}} = 278.7 \text{ ksi}$$

Table 10-6:

$$S_{sy} = 0.45(278.7) = 125.4 \text{ ksi}$$

$$D = 1.225 - 0.105 = 1.120 \text{ in}$$

$$C = \frac{D}{d} = \frac{1.120}{0.105} = 10.67$$

Eq. (10-6):

$$K_B = \frac{4(10.67) + 2}{4(10.67) - 3} = 1.126$$

Eq. (10-3):

$$F|_{S_{sy}} = \frac{\pi d^3 S_{sy}}{8K_B D} = \frac{\pi(0.105)^3(125.4)(10^3)}{8(1.126)(1.120)} = 45.2 \text{ lbf}$$

Eq. (10-9):

$$k = \frac{d^4 G}{8D^3 N_a} = \frac{(0.105)^4(11.75)(10^6)}{8(1.120)^3(11)} = 11.55 \text{ lbf/in}$$

$$L_o = \frac{F|_{S_{sy}}}{k} + L_s = \frac{45.2}{11.55} + 1.26 = 5.17 \text{ in} \quad \text{Ans.}$$

# Mechanical Engineering Design 8th Edition Solution Manual

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