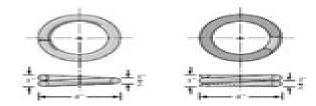
Chapter 10

110-1



10-2
$$A = Sd^m$$

 $\dim(A_{uscu}) = \dim(S) \dim(d^m) = \text{kpsi} \cdot \text{in}^m$
 $\dim(A_{SI}) = \dim(S_1) \dim(d_1^m) = \text{MPa} \cdot \text{mm}^m$
 $A_{SI} = \frac{\text{MPa}}{\text{kpsi}} \cdot \frac{\text{mm}^m}{\text{in}^m} A_{uscu} = 6.894757(25.40)^m A_{uscu} \doteq 6.895(25.4)^m A_{uscu} \quad Ans.$

For music wire, from Table 10-4:

$$A_{\text{uscu}} = 201$$
, $m = 0.145$; what is A_{SI} ?
 $A_{\text{SI}} = 6.89(25.4)^{0.145}(201) = 2214 \text{ MPa} \cdot \text{mm}^m$ Ans.

10-3 Given: Music wire,
$$d = 0.105$$
 in, OD = 1.225 in, plain ground ends, $N_t = 12$ coils.

Table 10-1:
$$N_a = N_t - 1 = 12 - 1 = 11$$

 $L_s = dN_t = 0.105(12) = 1.26$ in Table 10-4: $A = 201$, $m = 0.145$

(a) Eq. (10-14):
$$S_{ad} = \frac{201}{(0.105)^{0.145}} = 278.7 \text{ kpsi}$$

Table 10-6:
$$S_{sy} = 0.45(278.7) = 125.4 \text{ kpsi}$$

 $D = 1.225 - 0.105 = 1.120 \text{ in}$
 $C = \frac{D}{d} = \frac{1.120}{0.105} = 10.67$

Eq. (10-6):
$$K_B = \frac{4(10.67) + 2}{4(10.67) - 3} = 1.126$$

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

Eq. (10-9):
$$k = \frac{d^4G}{8D^3N_\sigma} = \frac{(0.105)^4(11.75)(10^6)}{8(1.120)^3(11)} = 11.55 \text{ lbd/in}$$
$$L_0 = \frac{F|_{S_D}}{b} + L_x = \frac{45.2}{11.55} + 1.26 = 5.17 \text{ in } Ans.$$

Mechanical Engineering Design 8th Edition Solution Manual

Gavin Towler, Ray Sinnott

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