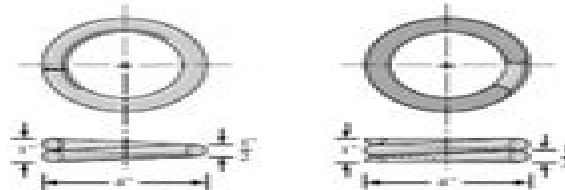


Chapter 10

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):

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

Table 10-6:

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

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

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

Eq. (10-6):

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

Eq. (10-3):

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

Eq. (10-9):

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

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

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Michael Hoelscher



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Table of Contents Mechanical Engineering Design 8th Edition Solution Manual

1. Understanding the eBook Mechanical Engineering Design 8th Edition Solution Manual
 - The Rise of Digital Reading Mechanical Engineering Design 8th Edition Solution Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Mechanical Engineering Design 8th Edition Solution Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mechanical Engineering Design 8th Edition Solution Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mechanical Engineering Design 8th Edition Solution Manual

- Personalized Recommendations
 - Mechanical Engineering Design 8th Edition Solution Manual User Reviews and Ratings
 - Mechanical Engineering Design 8th Edition Solution Manual and Bestseller Lists
5. Accessing Mechanical Engineering Design 8th Edition Solution Manual Free and Paid eBooks
 - Mechanical Engineering Design 8th Edition Solution Manual Public Domain eBooks
 - Mechanical Engineering Design 8th Edition Solution Manual eBook Subscription Services
 - Mechanical Engineering Design 8th Edition Solution Manual Budget-Friendly Options
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 - ePub, PDF, MOBI, and More
 - Mechanical Engineering Design 8th Edition Solution Manual Compatibility with Devices
 - Mechanical Engineering Design 8th Edition Solution Manual Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mechanical Engineering Design 8th Edition Solution Manual
 - Highlighting and Note-Taking Mechanical Engineering Design 8th Edition Solution Manual
 - Interactive Elements Mechanical Engineering Design 8th Edition Solution Manual
 8. Staying Engaged with Mechanical Engineering Design 8th Edition Solution Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mechanical Engineering Design 8th Edition Solution Manual
 9. Balancing eBooks and Physical Books Mechanical Engineering Design 8th Edition Solution Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mechanical Engineering Design 8th Edition Solution Manual
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Mechanical Engineering Design 8th Edition Solution Manual
 - Setting Reading Goals Mechanical Engineering Design 8th Edition Solution Manual
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Mechanical Engineering Design 8th Edition Solution Manual

- Fact-Checking eBook Content of Mechanical Engineering Design 8th Edition Solution Manual
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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