

Chapter 11

- 11-1** For the deep-groove 02-series ball bearing with $R = 0.90$, the design life x_D , in multiples of rating life, is

$$x_D = \frac{L_D}{L_R} = \frac{60 \mathcal{L}_D n_D}{L_{10}} = \frac{60(25000)350}{10^6} = 525 \quad \text{Ans.}$$

The design radial load is

$$F_D = 1.2(2.5) = 3.0 \text{ kN}$$

Eq. (11-6):
$$C_{10} = 3.0 \left\{ \frac{525}{0.02 + (4.459 - 0.02) [\ln(1/0.9)]^{1.483}} \right\}^{1/3}$$

$$C_{10} = 24.3 \text{ kN} \quad \text{Ans.}$$

Table 11-2: Choose an 02-35 mm bearing with $C_{10} = 25.5 \text{ kN}$. *Ans.*

Eq. (11-18):
$$R = \exp \left\{ - \left[\frac{525(3/25.5)^3 - 0.02}{4.459 - 0.02} \right]^{1.483} \right\} = 0.920 \quad \text{Ans.}$$

- 11-2** For the angular-contact 02-series ball bearing as described, the rating life multiple is

$$x_D = \frac{L_D}{L_R} = \frac{60 \mathcal{L}_D n_D}{L_{10}} = \frac{60(40000)520}{10^6} = 1248$$

The design radial load is

$$F_D = 1.4(725) = 1015 \text{ lbf} = 4.52 \text{ kN}$$

Eq. (11-6):

$$C_{10} = 1015 \left\{ \frac{1248}{0.02 + (4.459 - 0.02) [\ln(1/0.9)]^{1.483}} \right\}^{1/3}$$

$$= 10\,930 \text{ lbf} = 48.6 \text{ kN}$$

Table 11-2: Select an 02-60 mm bearing with $C_{10} = 55.9 \text{ kN}$. *Ans.*

Eq. (11-18):
$$R = \exp \left\{ - \left[\frac{1248(4.52/55.9)^3 - 0.02}{4.439} \right]^{1.483} \right\} = 0.945 \quad \text{Ans.}$$

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Embracing the Song of Phrase: An Emotional Symphony within **Tipler Chapter 11 Solutions**

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Table of Contents Tipler Chapter 11 Solutions

1. Understanding the eBook Tipler Chapter 11 Solutions
 - The Rise of Digital Reading Tipler Chapter 11 Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Tipler Chapter 11 Solutions
 - 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 Tipler Chapter 11 Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Tipler Chapter 11 Solutions
 - Personalized Recommendations

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

- 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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