

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

$$x_D = \frac{L_D}{L_R} = \frac{60 \mathcal{L}_D n_D}{L_{10}} = \frac{60(25\,000)350}{10^6} = 525 \quad \text{Ans.}$$

The design radial load is

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

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

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

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

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

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

$$x_D = \frac{L_D}{L_R} = \frac{60 \mathcal{L}_D n_D}{L_{10}} = \frac{60(40\,000)520}{10^6} = 1248$$

The design radial load is

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

Eq. (11-6):

$$\begin{aligned} C_{10} &= 1015 \left\{ \frac{1248}{0.02 + (4.459 - 0.02) [\ln(1/0.9)]^{1/1.483}} \right\}^{1/3} \\ &= 10\,930 \text{ lbf} = 48.6 \text{ kN} \end{aligned}$$

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

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

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**Steven R. Schmid, Bernard J.
Hamrock, Bo. O. Jacobson**



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Fundamentals of Machine Elements, Third Edition Steven R. Schmid, Bernard J. Hamrock, Bo. O.

Jacobson, 2014-07-18 New and Improved SI Edition Uses SI Units Exclusively in the Text Adapting to the changing nature of the engineering profession this third edition of Fundamentals of Machine Elements aggressively delves into the fundamentals and design of machine elements with an SI version This latest edition includes a plethora of pedagogy providing a greater understanding of theory and design Significantly Enhanced and Fully Illustrated The material has been organized to aid students of all levels in design synthesis and analysis approaches to provide guidance through design procedures for synthesis issues and to expose readers to a wide variety of machine elements Each chapter contains a quote and photograph related to the chapter as well as case studies examples design procedures an abstract list of symbols and subscripts recommended readings a summary of equations and end of chapter problems What's New in the Third Edition Covers life cycle engineering Provides a description of the hardness and common hardness tests Offers an inclusion of flat groove stress concentration factors Adds the staircase method for determining endurance limits and includes Haigh diagrams to show the effects of mean stress Discusses typical surface finishes in machine elements and manufacturing processes used to produce them Presents a new treatment of spline pin and retaining ring design and a new section on the design of shaft couplings Reflects the latest International Standards Organization standards Simplifies the geometry factors for bevel gears Includes a design synthesis approach for worm gears Expands the discussion of fasteners and welds Discusses the importance of the heat affected zone for weld quality Describes the classes of welds and their analysis methods Considers gas springs and wave springs Contains the latest standards and manufacturer's recommendations on belt design chains and wire ropes The text also expands the appendices to include a wide variety of material properties geometry factors for fracture analysis and new summaries of beam deflection **The Publishers' Trade List Annual**, 1980 Mechanical Engineering Design Ansel C.

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