

## 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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