

11A.1 Temperature in a friction bearing.

The method given in the solution of Problem 10A.3, based on Eq. 10.4-9, gives the maximum temperature rise in the lubricant as

$$\begin{aligned} T_{\max} - T_1 &= \frac{1}{8} \frac{\mu \Omega^2 R^2}{k} \\ &= \frac{1}{8} \frac{(2.0 \text{ g/cm}\cdot\text{s})(8000\pi/60 \text{ rad/s})^2 (2.54 \text{ cm})^2}{([4.0 \times 10^{-4} \times 4.1840 \times 10^7] \text{ g}\cdot\text{cm/s}^2\cdot\text{K})} = 16.9\text{C} \end{aligned}$$

and the maximum temperature T_{\max} as 217C.

Next, we consider the analysis given in §11.4, which includes the curvature effects. Since T_1 and T_s are equal, Eq. 11.4-14 is applicable and gives

$$\xi_{\max} = \sqrt{\frac{2 \ln(1/\kappa)}{((1/\kappa)^2 - 1)}}$$

as the location where the temperature T_{\max} occurs. For this problem, $\kappa = 1/1.002$; hence,

$$\xi_{\max} = \sqrt{\frac{2 \ln(1.002)}{((1.002)^2 - 1)}} = 0.999001165$$

which location is essentially in the middle of the gap.

To evaluate T_{\max} , we multiply Eq. 11.4-13 by $(T_1 - T_s)$ to make each term finite; the result (after division by κ^4 in the numerator and denominator) is

$$T - T_s = \frac{\mu \Omega R^2}{k} \cdot \frac{1}{((1/\kappa)^2 - 1)^2} \left[\left(1 - \frac{1}{\xi^2}\right) - \left(1 - \frac{1}{\kappa^2}\right) \frac{\ln \xi}{\ln \kappa} \right]$$

With $\xi = \xi_{\max}$, we obtain the maximum temperature rise in this system as

$$\begin{aligned} T_{\max} - T_s &= \frac{(2.0 \text{ g/cm}\cdot\text{s})(8000\pi/60 \text{ rad/s})^2 (2.54 \text{ cm})^2}{([4.0 \times 10^{-4} \times 4.1840 \times 10^7] \text{ g}\cdot\text{cm/s}^2\cdot\text{K})} \cdot \frac{1}{(1.002^2 - 1)^2} \\ &\quad \cdot [-0.002000667 + 0.002002667] \\ &= 8.438 \times 10^6 \cdot [2.00 \times 10^{-6}] = 16.9\text{C} \end{aligned}$$

in agreement with the previous calculation. This good agreement is attributed to the narrowness of the gap relative to the cylinder radii in this problem.

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J Spring



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