Chapter 15

15-1 Given: Uncrowned, through-hardened 300 Brinell core and case, Grade 1, N_C = 10° rev of pinion at R = 0.999, N_F = 20 teeth, N_G = 60 teeth, Q_F = 6, P_d = 6 teeth/in, shaft angle = 90°, n_F = 900 rev/min, J_F = 0.249 and J_G = 0.216 (Fig. 15-7), F = 1.25 in, S_F = S_H = 1, K_G = 1.

Mesh
$$d_F = 20.6 = 3.333$$
 in, $d_G = 60.6 = 10.000$ in

Eq. (15-7):
$$v_r = \pi(3.333)(900/12) = 785.3 \text{ ft/min}$$

Eq. (15-6):
$$B = 0.25(12 - 6)^{2.3} = 0.8255$$

 $A = 50 + 56(1 - 0.8255) = 59.77$

Eq. (15-5):
$$K_n = \left(\frac{59.77 + \sqrt{785.3}}{59.77}\right)^{0.0245} = 1.374$$

Eq. (15-8):
$$v_{\ell,max} = [59.77 + (6-3)]^2 = 3940 \text{ ft/min}$$

Since 785.3 < 3904, $K_{\nu} = 1.374$ is valid. The size factor for bending is:

Eq. (15-10):
$$K_s = 0.4867 + 0.2132 / 6 = 0.5222$$

For one gear straddle-mounted, the load-distribution factor is:

Eq. (15-11):
$$K_m = 1.10 + 0.0036 (1.25)^2 = 1.106$$

Eq. (15-15):
$$(K_L)_F = 1.6831(10^9)^{-0.0323} = 0.862$$

 $(K_L)_G = 1.6831(10^9/3)^{-0.0323} = 0.893$

Eq. (15-14):
$$(C_L)_P = 3.4822(10^9)^{-0.0002} = 1$$

 $(C_L)_G = 3.4822(10^9/3)^{-0.0002} = 1.069$

Eq. (15-19):
$$K_R = 0.50 - 0.25 \log(1 - 0.999) = 1.25$$
 (or Table 15-3) $C_x = \sqrt{K_x} = \sqrt{1.25} = 1.118$

Bending

Fig. 15-13:
$$s_{so}S_r = s_{sc} = 44(300) + 2100 = 15300 \text{ psi}$$

Eq. (15-4):
$$(\sigma_{ax})_p = s_{ar} = \frac{s_{ar}K_L}{S_xK_xK_g} = \frac{15\ 300(0.862)}{1(1)(1.25)} = 10\ 551\ psi$$

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