CHAPTER 8

8.20   Estimate the 2×10^8 fatigue strength for a 25-mm-diameter reversed axially loaded steel bar having $S_u = 950\ Mpa$, $S_y = 600\ Mpa$, and a hot-rolled surface.

$S_n = ?$ at $N = 2 \cdot 10^8$

Table 8.1 Axial loads.

$C_T = 1$ $C_R = 1$ (no info)

At $N = 10^3 \rightarrow S_f = 0.75 \cdot S_u \cdot C_T \rightarrow S_f = 0.75 \cdot 950 = 713\ Mpa$

At $N = 10^6 \rightarrow S_n = S'_n \cdot C_L \cdot C_G \cdot C_S \cdot C_T \cdot C_R$

$S'_n = 0.5 \cdot S_u$

$10 < \emptyset < 50$, axial load $\rightarrow C_G = 0.8$

Figure 8.13: $C_S \approx 0.47$ (hot-roled, $S_u = 950$ MPa)

$C_L = 1$ (axial load)

$S_n = 0.5 \cdot 950 \cdot 0.8 \cdot 0.47 =$
$= S_n = 179\ Mpa$

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