

# CHAPTER 8

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8.20 Estimate the  $2 \times 10^6$  fatigue strength for a 25-mm-diameter reversed axially loaded steel bar having  $S_u = 950 \text{ MPa}$ ,  $S_y = 600 \text{ MPa}$ , and a hot-rolled surface.

$$S_n = ? \quad \text{at} \quad N = 2 \cdot 10^6$$

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Table 8.1 Axial loads.

$$C_T = 1 \quad C_R = 1 \text{ (no info)}$$

$$\text{At } N = 10^7 \rightarrow S_f = 0.75 \cdot S_u \cdot C_T \rightarrow S_f = 0.75 \cdot 950 = 713 \text{ MPa}$$

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

$$S'_n = 0.5 \cdot S_u$$

$$10 < \phi < 50, \text{ axial load} \rightarrow C_G = 0.8$$

Figure 8.13:  $C_S \approx 0.47$  (hot-rolled,  $S_u = 950 \text{ MPa}$ )

$$C_L = 1 \text{ (axial load)}$$

$$\left. \begin{array}{l} S_n = 0.5 \cdot 950 \cdot 0.8 \cdot 0.47 = \\ = S_n = 179 \text{ MPa} \end{array} \right\}$$

# Chapter 8 Solutions

**Daniel F McAuley**



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