

Shigleys Mechanical Engineering Design 11th Edition Budynas Solutions Manual

Chapter 1

Problems 1-1 through 1-6 are for student research. No standard solutions are provided.

- 1-7** From Fig. 1-2, cost of grinding to ± 0.0005 in is 270%. Cost of turning to ± 0.003 in is 60%.

$$\text{Relative cost of grinding vs. turning} = 270/60 = 4.5 \text{ times} \quad \text{Ans.}$$

- 1-8** $C_A = C_B$

$$10 + 0.8 P = 60 + 0.8 P - 0.005 P^2$$

$$P^2 = 50/0.005 \quad \Rightarrow \quad P = 100 \text{ parts} \quad \text{Ans.}$$

- 1-9** Max. load = 1.10 P
Min. area = $(0.95)^2 A$
Min. strength = 0.85 S

To offset the absolute uncertainties, the design factor, from Eq. (1-1) should be

$$n_d = \frac{1.10}{0.85(0.95)^2} = 1.43 \quad \text{Ans.}$$

- 1-10 (a)** $X_1 + X_2$:

$$\begin{aligned} x_1 + x_2 &= X_1 + e_1 + X_2 + e_2 \\ \text{error} &= e = (x_1 + x_2) - (X_1 + X_2) \\ &= e_1 + e_2 \quad \text{Ans.} \end{aligned}$$

- (b)** $X_1 - X_2$:

$$\begin{aligned} x_1 - x_2 &= X_1 + e_1 - (X_2 + e_2) \\ e &= (x_1 - x_2) - (X_1 - X_2) = e_1 - e_2 \quad \text{Ans.} \end{aligned}$$

- (c)** $X_1 X_2$:

$$\begin{aligned} x_1 x_2 &= (X_1 + e_1)(X_2 + e_2) \\ e &= x_1 x_2 - X_1 X_2 = X_1 e_2 + X_2 e_1 + e_1 e_2 \\ &\approx \underset{1}{X} \underset{2}{e} + \underset{2}{X} \underset{1}{e} = \underset{1}{X} \underset{2}{X} \left(\frac{e_1}{\underset{1}{X}} + \frac{e_2}{\underset{2}{X}} \right) \quad \text{Ans.} \end{aligned}$$

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