**Errata** (Engineering Materials in Mechanical Design – Principles of Selection with Q&A by Sujeet K. Sinha)

1. Page 19 – Equation (2.10) should be read as,

$$r^2 = \left[\frac{4FL^3}{3E\pi\delta}\right]^{1/2}$$

- **2.** Page 24 The x-axis legends in Figure 2.7 should be read as, Log  $\rho$ .
- 3. Page 42 Equation (3.5) and one before should be read as,

$$m = \pi (4FL/\pi\sigma)^{2/3} L\rho$$

$$= \pi (4FL/\pi)^{2/3} L (\rho/\sigma_y^{2/3})$$

- **4.** Page 55 The sentence just below Equation (4.7) should be read as,
- "Thus, we can convert Eq. (4.6) into the following ...."
- 5. Page 66 The third paragraph from top should be read as,
- "For a spherical pressure vessel (Fig. 5.5), the ...."
- **6.** Page 94 The equation for effective modulus, E\*, is given as,

$$1/E^* = \{(1-v_1^2)/E_1\} + \{(1-v_2^2)/E_2\}$$

7. Page 107 – The anodic reaction involving Zn should be read as,

$$Zn \rightarrow Zn^{2+} + 2e^{-}$$

8. Page 108 – Equation (8.9) should be read as,

$$k = \frac{\text{Atomic mass of the anodic metal (g mole}^{-1})}{\text{Number of electrons transferred per atom x } F \text{ (A.sec. mole}^{-1})}$$
(8.9)

where F is Faraday's constant (~ 96,500 Coulombs mole<sup>-1</sup> or A.sec.mole<sup>-1</sup>).

- 9. Page 142 The first sentence of the figure legend of Fig. 10.2 should be read as,
- "A scaffold for tissue engineering made of polycaprolactone (PCL)."
- **10.** Page 149 two lines above Section 11.2.1, should be read as,
- ".. higher strength in some ...."
- 11. Page 168, first line, Equation (11.7) should be read as,

$$d\sigma_T/d\epsilon_T = \sigma_T$$

- **12.** Page 185, Figure 11.27, the lowest curve has "P = atoms pheric" which should be read as "P = atmospheric"
- **13.** Page 264, Problem 5, the first sentence should be read as, "A steel component gives a fatigue life of 10<sup>4</sup> numbers of cycles under an alternating stress range of 175 MPa with a minimum stress value of zero."
- 14. Page 264, Table P.1, third column, units of 'Density' should be read as Mgm<sup>-3</sup>.