Scour Technology, George W. Annandale
Errata Sheet

- Page 26, Chapter Three, equation 3.4
  - $P = \tau U = \gamma y s_f U = \gamma q s_f$
- Page 68, Chapter Four, first paragraph
  - **Unit mass**. The unit mass of an individual non-cohesive granular element is the unit mass of its mineral content. A value that is commonly used for the unit mass of individual elements is 2650 kg/m^3.
- Page 68, Chapter Four, second paragraph
  - **Specific gravity**. Specific gravity is the unit mass of a soil element divided by the unit mass of water. The unit mass of water is usually assumed to be 1000 kg/m^3. The specific gravity of a soil element is therefore 2.65 (assuming a unit mass for the soil of 2650 kg/m^3).
- Page 130, Chapter Five, last paragraph
  - Delete the sentence, "The energy supply curve shown in Figure 5.6 represents the term *-d(τu)/dy*."
  - Second sentence should begin, "The direct dissipation curve in Fig. 5.6 represents…"
- Page 175, Chapter Five, Equation 5.103
  - $C_{pa} = 38.4(1-\alpha_i)\left(\frac{D_j}{Y}\right)^2$ if $\frac{Y}{D_j} > 4$

    $C_{pa} = 0.875$ if $\frac{Y}{D_j} \le 4$
- Page 181, Chapter 5, Table 5.5

T_u (%)	a_1	a_2	a_3	a_4	Type of Jet
< 1	0.000220	-0.0079	0.0716	0.00	Compact
1 – 3	0.000215	-0.0079	0.0716	0.050	Low Turbulence
3 – 5	0.000215	-0.0079	0.0716	0.100	Moderate Turbulence
> 5	0.000215	-0.0079	0.0716	0.150	High Turbulence

- Page 263, Chapter Eight, Equation 8.4
  - $N = \frac{1}{C\left(f\Delta\sigma_{water}\sqrt{\pi}\right)^m} \cdot \frac{(-1)}{\left(1-\frac{m}{2}\right)} \cdot \left(a^{1-\frac{m}{2}} - L_f^{1-\frac{m}{2}}\right)$ for $a < L_f$
- Page 290, Chapter Eight, Equation 8.30
  - $P = 7.853\rho\left(\frac{\tau}{\rho}\right)^{3/2}$

- Page 297, Chapter Eight, Figure 8.23
  - Change reference from equation 3.19 or 3.20 to equation 8.38 or 8.39.