

**Errata Sheet – January 30, 2006**  
*Guidelines for Chemical Process Quantitative Risk Analysis*  
Chapter 2: Consequence Analysis  
American Institute of Chemical Engineers; New York, NY 2000

**Page**

- Page 68 Table 2.4. Several table entries are incorrect.  
For 180° Standard threaded elbow,  $K_{\infty} = 0.60$  instead of 0.70  
For Tees, Run-through, threaded,  $K_{\infty} = 0.10$  instead of 1.10  
For Tees, Flanged/welded,  $K_1 = 150$  instead of 250;  $K_{\infty} = 0.50$  instead of 0.05  
For Check valves, Swing,  $K_{\infty} = 1.50$  instead of 0.0  
For check valves, Tilting disk,  $K_{\infty} = 0.50$  instead of 1.50  
Bottom number of 0.50 in column under  $K_{\infty}$  should be deleted.
- Page 75 Figure 2.4. Upper and lower k values are reversed, i.e. the lower curve should be  $K = 1.2$  and the upper curve  $k = 1.67$ .
- Page 99 Middle of page. The italicized word *Evaporation* should be bold **Evaporation** to be consistent with other headings.
- Page 100 Below Equation (2.1.39)  
Heat flux should have units of (energy/area-time) instead of (energy/area)  
Thermal conductivity should have units of (energy/length-time-deg)  
instead of (energy/length-deg)
- Page 114 Table 2.8. “E: Slighrly” should be “E: Slightly”
- Page 121 Figure 2.28. Scales on y-axis on bottom two figures are off by an order of magnitude. In both, scale goes from  $10^1$  to  $10^4$ .
- Page 122 Table 2.12.  
Under urban conditions, for A-B stability class, equation should be  $\sigma_z = 0.24x(1 + 0.001x)^{+1/2}$   
Under urban conditions, for D stability, equation should be  $\sigma_z = 0.14x(1 + 0.0003x)^{-1/2}$
- Page 144 Near middle of page. “demensional” should be “dimensional”
- Page 147 Table 2.16. Heading in first column should be “Concentration Ratio” not “Concentration ration”.
- Page 148 Table 2.16. Heading in first column should be “Concentration Ratio” not “Concentration ration”.
- Page 161 Figure 3.3. The arrival time, impulse and duration should all have units that are divided by  $(\text{kg TNT})^{1/3}$ .
- Page 170 Table 2.20. First column. The words “Planar” and “Line” should be switched.
- Page 253 Table 2.29. “n-butyl acrytate” should be “n-butyl acrylate.”

**Spreadsheets**

- Example 20: The impulse, duration and arrival time should be multiplied by  $(\text{TNT mass})^{1/3}$ .
- Example 21b: Flame speed at top of spreadsheet has units of Mach no instead of m/s  
Excel version: interpolation for scaled overpressure and scaled impulse is missing.