Fundamentals of Transport Phenomena—errata

1. **page 49, footnote 17:** before the integral sign should appear the fraction $1/\Delta\tau$.
2. **page 72:** There is mass, m, missing in the formula for angular momentum:

$$\mathbf{L} = m\mathbf{r} \times \mathbf{v}\,.$$

3. **page 125, figure caption:** after (e) the less than sign should be a greater than sign.
4. **page 178:** first sentence in section 6.7: $\mathfrak{B}$ should read $\mathfrak{b}^{\nu}$.
5. **page 223:** equation (7.7.11) is *not* Darken's relation. From the equation above (7.7.10) you see that the fraction in (7.7.11) is trivially **one**. To get Darken's relation you need to use (7.7.6a) for D_{A}; then you easily find:

$$\frac{D_{\mathrm{A}}}{D_{\mathrm{A}\bullet}} = 1 + \frac{\mathrm{d}\ln\gamma_{\mathrm{A}}}{\mathrm{d}\ln x_{\mathrm{A}}}$$

   This is Darken's thermodynamic relation. The ratio of intrinsic to tracer diffusivity *is* equal to one if the solution is ideal, Henrian or Raoultian.