Thermodynamics and Its Applications, 3rd edition
Corrections for the 2nd printing
April 15, 1998

Ch 10

- p398 replace two lines below Eq. (10-29), with "λ_j can be related directly to the pure component fugacity, f_j^o (*pure*). Now the probability of $\boldsymbol{P}_N(\underline{E}_i)$ of finding a system of N_j similar molecules with energy $\underline{E}_i$, can be rewritten; in Eqs. (10-27) - (10-31) replace N_i with N_j, λ_i with λ_j and μ_i and μ_j

- p407 Eq (10-80), insert − sign in $F_{ij} = -\nabla\Phi$

- p408 in the dipole-dipole figure, directional sign of γ_i and γ_j should be the same

- p416 Eq (10-96), $\underline{V}$ extensive not V

- p418 last equation on the page, $\Phi(1)$ should be $\Phi(r)$

- p438 Eq. (10-164), insert − sign on the right hand side

- p440 2 lines above the figure, "estimated" not "estimed"

Ch 11

- p467 Eq (11-35), $\Delta G^{EX} = \Delta A_{mix} + T\Delta S^{ID}$

- p471 Eq. (11-48), ρ_2 throughout on RHS

- p473 Eq. (11-52), ρ_2 throughout on RHS

- p479 2 lines below Eq. (11-59), $N = rN_2$

- p492 Table 11.4 1st entry, misspelling of "Acetonitrile"

- p493 Eq (11-91) in third term on RHS, ∂x_2^2

Ch 12

-p507 1 line below Eq. (12-9b), $\gamma_\pm$ 1.0 as $\boldsymbol{m}$ 0.

- p525 just after Eq. (12-68), in the terms for A = ... insert $\rho_s^{1/2}$ after $1.8244\text{x}10^6$ and replace L with kg and for B = ... change F^3 to $F^2\rho_s$, after $5.0292\text{x}10^{11}$ $\rho_s^{½}$, and replace L with kg throughout

Ch 13

- p585 problem 13.4, 4th line, (see Problem 15.38 not 15.40)