

Chapter 1

Page 10, Reference to Fig. 1.6 should be Fig 1.4.

Page 19: Pyroxenes have two bridging oxygens per tetrahedron; amphiboles have 2.5 bridging oxygens between tetrahedron

Chapter 2

p. 30 equation 2.26: delete extra x

p. 31: equation 2.32 denominator on left hand side of equation should be ∂T , not ∂P

p. 51: Figure number 2.13 should be numbered as 2.11.

p. 33. The word “permutation” should be replaced by “combination” on this page and elsewhere

p. 44 equation 2.89 should read $U = nkT^2 \left[\frac{\partial \ln Q}{\partial T} \right]$

p. 44, equation 2.90 should read $U = RT^2 \left[\frac{\partial \ln Q}{\partial T} \right]$

p. 48. equation 2.102 should read: $C_p = a + bT + \frac{c}{T^2}$

p. 47 last paragraph, replace “equation 2.125” with “equation 2.93”

p. 53 equation 2.120 should read $S_{298} = \int_{298}^{T} \frac{C_p dT}{T} + S_0 + \Delta S$

p. 53 second equation in example 2.5 should read

$$\Delta H = \Delta aT + \frac{b}{2}T^2 + \frac{c}{T} = 46.94 \Delta T + \frac{0.0343}{2}T^2 + \frac{1129680}{T}$$

p. 57 Example 2.7 third paragraph should read “...we use equations 2.127 and 2.128 to see how ΔG will change”

Chapter 3

p. 64. Since the reaction: $K - Na = KNa_1$ may also be written, this system have 4 species, 2 reactions and hence a minimum of 2 components.

p. 71. Equation 3.19 should read:

$$G = \sum_i n_i \left[\frac{\partial G}{\partial n_i} \right]_{p,T,n_{j \neq i}} = \sum_i n_i \mu_i$$

p. 75 “defined as” sign in equation 2.41 should be replaced by an equal sign.

p. 78 Equation 3.49 should read:

ERRATA FOR 2001 VERSIONS

(CORRECTED IN 2003 VERSIONS)

$$\int_{P_{ref}}^{P'} V_r dP = V^s(P' - P_{ref}) + \int_{P_{ref}}^{P'} V_{H_2O} df = V^s(P' - P_{ref}) + RT \ln \frac{f'}{f^{ref}}$$

p 78.

Reference to equation 2.139 in Example 3.2 should be to equation 2.133.

p. 83 equation 3.70 – should read:

$$\lim_{m \rightarrow 0} \frac{a_i}{m_i} = 1$$

p. 92 Equation 3.84 should read $\sum_i \bar{v}_i \bar{v}_i' + RT \ln \prod_i a_i^{\bar{v}_i} = 0$

Equation 3.85 should read

$$K = \prod_i a_i^{\bar{v}_i}$$

p. 107 Equation 3.120 should read: $\log K = -2pH - 2p\bar{v}$

Chapter 4

p. 129. Equations 4.29 and 4.30 should read:

$$\bar{v}_{Ab}^{os} - \bar{v}_{Ab}^{ol} = RT \ln \frac{X_{Ab}^{\ell}}{X_{Ab}^s}$$

$$\bar{v}_{An}^{os} - \bar{v}_{An}^{ol} = RT \ln \frac{X_{An}^{\ell}}{X_{An}^s}$$

and