

(Thanks to everyone who has sent these in – we hope to fix them all in the second printing!)

I. TEXT CHANGES THAT AFFECT CONTENT:

- p. 6, right column, 2nd to last paragraph, should read: “**Kyanite** is generally found...”
- p. 7, left column, bottom sentence: should read: “...(in other countries, there are seven because systems based on 3-fold and 6-fold axes are treated separately).
- p. 12, caption to Figure 1.13: “uniaxial” should be “biaxial” and “clear or a blue” should be “clear, blue, or yellow”
- p. 14, left column, line 36: “N¹⁺” should be “Na¹⁺”
- p. 20, line -17: should read “Mineral - a naturally-occurring, typically inorganic solid...”
- p. 44, caption to Figure 2.90, line 2: “pericline” should be “microcline”
- p. 119, Figure 6.16: the triple point should be located at 3.8 kbar and 501 °C. The slopes of the univariant curves are also off by a little bit. For the correct diagram, see Holdaway (1971) *American Journal of Science*, vol. 271, pp. 97-131.
- p. 170, caption to Figure 9.1, line -2: “SiO₆O₁₈...” should be “Si₆O₁₈...”
- p. 205, Table 10.5, 3rd line from bottom should be “Sum of this column = 5.3087”
- p. 208, Table 10.8, column 4 of both tables: K₂O molecular proportion should be 8.99/94.1960 = 0.0954 (*not* 0.0654)
- p. 208, Table 10.8, last line of both tables: Factor = 22/2.7712 = 7.9387 and 24/3.0110 = 7.9706
- p. 247, Table 11.8 Bravais Lattices: orthorhombic side-centered is mislabeled as I – should be C
- p. 247, Table 11.8 Bravais Lattices: orthorhombic body-centered is mislabeled as C, should be I
- p. 279 and 280: the position of “a” 12.42 & 12.43 is mislabeled. The correct position is shown in Fig. 12.35, and it would be at exactly 7 pm (because 30 degrees = 1 hour).
- p. 288, caption for Fig. 12.54b, 5th line, pyrope formula: should be Si₃ NOT Si₄
- p. 328, left column, in central term of product matrix: “a22b22” should be “a22b21”
- p. 380, line 3: should read “Diffraction by Atoms in Lattices”
- p. 449, Figure 17.18. In the figure itself, change “3_O and 4_E” to “3_E and 4_O” and change “1_O and 2_E” to “1_E and 2_O”
- p. 454: “oblate ellipsoid (stretched vertically...)” and “prolate ellipsoid (squashed vertically...)” should be reversed, as in “prolate ellipsoid (stretched vertically...)” and “oblate ellipsoid (squashed vertically...)”
- p. 536, Figure 20.1: the triple point should be located at 3.8 kbar and 501 °C. The slopes of the univariant curves are also off by a little bit. For the correct diagram, see Holdaway (1971) *American Journal of Science*, vol. 271, pp. 97-131.
- p. 538, end of 1st column, beginning of 2nd column, should read: “thus, orthoclase is in a different monoclinic space group, and microcline is triclinic.”
- p. 618, Table 22.17: add “*” after pezzottaite in table, and add a footnote as follows: “*Unlike the other beryl group members in which the three Be cations occupy three symmetrically-related positions, Be₂Li ordering in pezzottaite changes the symmetry to rhombohedral.”
- p. 618, Table 22.17, left column: fields for “Beryl” and Cordierite” should be merged, with the label of “Beryl-Cordierite”

II. TEXT CHANGES THAT ARE EDITORIAL (AND DON'T REALLY AFFECT CONTENT)

Global change: Put spaces before °C and other units if possible

Global change: Search on and fix all “OH” to be “(OH)¹⁻”

p. ix, left column, page 321 and page 371: put the “*d*” in “*d*-spacing” in italics

p. ix, right column, line 8: “&” should be “and”

p. 3, 2nd para, last sentence should read "Knowing if the soup is a mixture of many ingredients or a small number..."

p. 6, paragraph 2 and caption to Fig. 1.6: add superscripts to Si⁴⁺, Al³⁺, Mg²⁺, Na¹⁺, Ca²⁺, and K¹⁺

p. 21: left column, 3rd line: “CNMMC” should be “CNMNC”

in the Table, “International Commission on New Mineral and Mineral Names” should be:

“Commission on New Minerals, Nomenclature, and Classification”

p. 23, Table 2.2: need a space between “multiple(polysynthetic)”

p. 40: 1st sentence should read "when a crystal is completely bounded"

p. 80, left column, line 7-8: “possibility” should be “possibly”

p. 111, caption 6.4: “ball and spoke” should be “ball and stick”

p. 140, right column, line 10: “Fe²⁺ and” should be “Fe²⁺ and”

p. 157, right column: Zn should be Zn²⁺, S should be S²⁻, Pb should be Pb²⁺, Na should be Na¹⁺, Cl should be Cl¹⁻, Fe should be Fe²⁺

p. 158, left and right columns: S should be S²⁻, Cl should be Cl¹⁻, Fe should be Fe²⁺

p. 167, caption to Figure 8.21a, “six membered” should be hyphenated

p. 197, right column, line 3: need a space before “If”

p. 205: remove 4th significant digit after decimal in columns 5, 6, and 7

p. 218, left column, line 9: “5” should be “five”

p. 229, left column, directly above table 11.1 remove the indent and italics beginning with “everything an equal...” and delete redundant phrase “rather than through a plane”

p. 229, Table 11.1 should appear as follows:

<i>m</i>	<i>cos α</i>	<i>α</i>	Angle (°)	<i>n</i> -fold axis
-2	3/2	no solution	--	--
-1	1	0	0° or 360°	∞ or 1-fold
0	1/2	π/3	60°	6-fold
1	0	π/2	90°	4-fold
2	-1/2	2 π/3	120°	3-fold
3	-1	π	180°	2-fold
4	-3/2	no solution	--	--

p. 284, left column, line -4, should be “groups of atoms, repeat in space.”

p. 284, right column, line 5: should be “This time we will put a lattice point on the corner of each of the blocks (Figure 12.48). In the most general case, we can always represent the lattice of a material with atoms, or groups of atoms, at these lattice points.”

p. 286, right column, lines 5-7: “However, lattice points rarely are indicated by individual atoms, and are far more commonly found to be located relative to collections of atoms.”

p. 332: left column, middle: “*ab*-plane” should be “*a-b* plane”

p. 350, last line of figure caption: “Downs 1991” should be “Downs, 1991,”

p. 369, left column: “gratings have been” should be “gratings has been”

p. 399, heading: “&” should be “and”

p. 403, left column, 3 lines from bottom: “3x10⁸” should be “3×10⁸” (multiplication x)

- p. 428, Figure 16.27: “First order” should be “First-order”, “Second order” should be “Second-order” etc.
- p. 441, 1st line of figure caption: the “u” in “um” should not be boldface
- p. 496, left column, line 9: “1900’s” should be “1900s”
- p. 505, right column, 1/2-way: “(Gunter et al. 1994)” should be “(Gunter et al., 1994)”
- p. 507, Figure 18.39: both A and B should have “n” as the y axis label
- p. 518, in Figure 19.3: “&” should be “and”
- p. 521, Table 19.1: “webmineral.com” should be www.webmineral.com
- p. 523, bottom right corner of the figure viewed right-side up: “Ilem-nite” should be “Ilmenite”
- p. 529, left column: “4300” should be “4,300”
right column: “4,000+” should be “4,300+”
- p. 533: Ertl et al. citation should be: Ertl, A., Dyar, M.D., Hughes, J.M., Brandstatter, F., Gunter, M.E., Prem, M., and Peterson, R.C. (2008) Pertlikite, a new tetragonal Mg-rich member of the voltaite group from Madeni Zakh, Iran. Canadian Mineralogist, 661-669.
- P. 537, left column, line 7: “kbars” should be “kb”
- p. 538 and 539: in phase diagrams, convert GPa to kb
- p. 549, right column, equations: put a blank line before “and then”
in the 2nd set, move the Ky, Qtz, and fluid to be under the formulas they modify
14th line from the bottom, “elements” should be “ions”
- p. 564, Figure 21.2: the Na, Cl, As, and Ni in the figure itself should have superscripts
- p. 573, caption to Figure 21.14: “silicon dioxide” should be “quartz”
left column: Al and O need superscripts
- p. 611, Figure 22.24: modify the dark lines on these figures, so the lines are never horizontal.
- p. 613: left column, second line from the end, "pyroxnes" should be "pyroxenes"
- p. 615: Figure 22.29, in the labels on Amphiboles and Pyroxenes ternary diagrams: "Mg/Ca =" should be "(Mg,Fe)/Ca" AND "Amphacite" should be "Omphacite"
- p. 619: “H₃O⁺” should be “H₃O¹⁺”
- p. 622: caption to Figure 22.36, 2nd line: “projects” should be “projections”
- p. 627, upper left column: replace the double arrows with single arrows in the equations.
- p. 632, right column, line 10: “(Deer et al. 1982)” should be “(Deer et al., 1982)”
- p. 636, Acknowledgments: replace the “I” with “We” and “I am” with “We are”
- p. 647, caption to Figure 23.4: “cubic, close-packed” should be “cubic close-packed”
- p. 662: put a title on the Text Box: something like: “Types of Magnetism”
- p. 663: Put umlaut in boehmite so it reads as “böhmite”
- p. 679: column 1, ¾ of the way down: fix the tall cells for carnotite and margaritasite
- p. 687: Gunter citation should be: Gunter, M.E., Belluso, E., and Mottana, A. (2007) Amphiboles: Environmental and health concerns. In Amphiboles: Crystal Chemistry, Occurrences, and Health Concerns, Reviews in Mineralogy and Geochemistry, 67, 453-516.
- p. 688: Wajima et al. citation should be: Wajima, T., Kuzawa, K., Ito, K., Tamada, O., Gunter, M.E., and Rakovan, J. (2007) Material conversion from paper sludge ash in NaOH, KOH, and LiOH solutions. American Mineralogist, 1105-1111.
- Ch. 24: add examples from the metallurgical and ceramic literature
- p. 687-688: Wood et al. (2006) citation at the bottom of p. 687 should be moved to p. 688, to be the last citation in the list.
- p. 689: remove entry for “Amphacite 615”

p. 699: add p. 615 to entry for "Omphacite"