

Page(s)	Description of Change
vi-xii	Revised Table of Contents, list of Figures and List of tables to reflect changes in pagination.
xviii	Remove definition of absorption as superfluous and inserted definition of beneficiation
2	Corrected Figure caption to conform with APA bibliography guidelines. Enlarged Figure 1.1 to improve readability.
3	Changed head group to headgroup for continuity.
4	Corrected Figure caption to conform with APA bibliography guidelines.
6	Changed Figure 1.3 to show hydrocarbon chain. Changed Figure 1.3 to include 36 carbon atoms.
9	Added paragraph to describe to the reader, the reason for the chapter
10	Corrected Figure caption to conform with APA bibliography guidelines.
11	Changed heterogeneous to homogenous. Changed that to than.
15	Corrected Figure caption to conform with APA bibliography guidelines.
16	Corrected Figure caption to conform with APA bibliography guidelines.
17	Corrected Figure caption to conform with APA bibliography guidelines.
18	Corrected Figure caption to conform with APA bibliography guidelines.
20	Corrected Figure caption to conform with APA bibliography guidelines.
22	Added γ to equations 3 and 4
24	Corrected Figure numbers in text to refer to correct Figures
25	Corrected Figure captions to conform with APA bibliography guidelines.
26	Changed heads to headgroups.

28	Corrected Figure caption to conform with APA bibliography guidelines.
29	Corrected Figure caption to conform with APA bibliography guidelines.
30	Corrected Figure caption to conform with APA bibliography guidelines.
31	Removed Figure 2.13 as it was a duplicate.
32	Corrected Figures 2.13 and 2.14 to properly show relative sizes of hydrogen and oxygen. Corrected Figure captions to conform with APA bibliography guidelines.
33	Corrected Figure 2.15 to properly show relative sizes of hydrogen and oxygen. Corrected Figure caption to conform with APA bibliography guidelines.
34	Corrected Figure 2.16 to properly show relative sizes of hydrogen and oxygen. Corrected Figure caption to conform with APA bibliography guidelines.
34	Added word metal.
35	Added arrow to Figure 2.17 to correct chemical formula. Corrected Figure caption to conform to APA bibliography guidelines.
36	Defined autogenous grinding.
39	Corrected Figure caption to conform to APA bibliography guidelines. Changed pivotable to pivotal.
40	Corrected Figure caption to conform to APA bibliography guidelines. Replaced ionic radical group with anionic headgroup
41	Replaced radical headgroup with ionic headgroup.
41	Changed colour of “non-sulphide minerals” in figure 2.20. Corrected Figure caption to conform to APA bibliography guidelines.
42	Corrected Figure caption to conform to APA bibliography guidelines.
44	Changed liken to likened.
46	Corrected Figure caption to conform to APA bibliography guidelines.

50	Added sentence to explain why pyrite, sphalerite separation is important to understanding of flotation chemistry.
52	Corrected Figure caption to conform to APA bibliography guidelines.
53	Bracketed "110". Corrected Figure caption to conform to APA bibliography guidelines.
54	Added "photoreduction of Cu(II) to Cu(I)", "removed photoreduction of Cu(II) to Cu(I)".
55	Corrected Figure caption to conform to APA bibliography guidelines.
55	Changed $\text{Cu}(\text{OH})_2^{2+}$ to $\text{Cu}_2(\text{OH})_2^{2+}$.
57	Corrected Figure caption to conform to APA bibliography guidelines.
72	Corrected Newcombe and Gerson citation.
74	Corrected Toperi and Tolun citation.
76	Corrected Figure 3.1 number.
78	Corrected tense and added statement as to water removal.
79	Corrected Figure caption to conform to APA bibliography guidelines.
80	Changed tense.
82	Changed clustered to cluster. Corrected Figure caption to conform with APA bibliography guidelines. Changed "prevented" to "compensated for"
83	Changed and to an; added based before electron gun.
84	Added wording to Figure caption to clarify relationship of ROI and spectrum. Added "without the use of matrix matched standards" to explain why quantification is not available.
85	Added section 3.3.2 to explain reporting of ToF-SIMS results and figure to show the legend for box and whisker plots.
86	Added "combined with Energy Dispersive X-ray spectrometry". Added word "had" before "no evidence of Cu".

87	Updated Table references, to reflect Table renumbering.
91	Added “suggesting a loss of CH ₃ .” Added “the variability of “and “The typical detection limits for TOF-SIMS are in the low ppm range.”
93	Removed Figure 4.1 and 4.1 (continued) and replaced with Figures 4.1 (a) to (e), showing the TECFLOTE S11 fragments from amu 0 to 233.
99	Revised Figure 4.2, removing legend and replacing with reference to section 3.3.2.
101	Revised figure 4.4 to remove superfluous text box and legend from Figure.
103	Updated figure number.
106	Added column Feed % Cu to Table 4.2
110	Added statement as to use of adjusted recovery measure in industrial practice. Replaced “radical head group” with “functional headgroup” and “head group” with “Headgroup”.
111	Corrected Figure caption to conform to APA bibliography guidelines.
112	Updated Figure number 4.11
116	Replaced “ionic head’ with anionic headgroup”
117	Replaced “head groups” with “headgroups”. Replaced “radical” with “functional” and “radical heads” with ‘functional headgroups”.
118	Replaced “head group” with “headgroup” for consistency.
119	Updated table number reference to match with renumbered tables
127-133	Added Tables A1 – A4, baseline tests and renumbered subsequent Tables.
134-135	Renumbered Tables to reflect changes caused by repagination. .

