Errata for CT2, Steve Awodey, 12/2010

Chapter 1:
p. 8, l. -8: remove extra vertical space following the displayed "It's the arrows ...".
p. 21, l. 10: remove the stray apostrophe after "We".

Chapter 3:
p. 58, l. -2: change "A + B \rightarrow C" to " \varphi\vee\psi\rightarrow\vartheta "
p. 62, l. 12: change "diagram" to "following diagram." (with full stop)
p. 66, l. -10: insert "an" to read "dual to that of an equalizer, ..."

Chapter 4:
p. 80, l. 8: insert "on one object" to read: ... this example is in fact the "free monoidal category on one object."
p. 88, last line: Insert a further exercise:
9. Verify that the category $\mathbf{Ord}_\mathrm{fin}$ is indeed the free monoidal category on one object.

Chapter 5:
p. 91, l. 2: in the displayed diagram, remove the prime sign ' from the M on the right and add a prime sign to the M on the left.
p. 91, l. 4: in the displayed formula, remove the prime sign ' from the M.
p. 91, l. 5: delete the words "with f ".
p. 92, bottom most diagram: something is wrong with the label on the middle diagonal arrow. It should be " \langle z_1 , z_2 \rangle ".
p. 97, l. 6: in the displayed formula, change "X" to "\alpha" all 3 times, while preserving the subscript position throughout, and the prime sign on the second occurrence.
p. 99, l. 9: following x insert "over A" to read: "... term f for the variable x over A in a propositional function ..."
p. 111, l. -6: following "that is," insert "$V_1(A) = A + \mathcal{P}(A)$ is" to read " that is, $V_1(A) = A + \mathcal{P}(A)$ is the set of all ... "

Chapter 6:
p. 130, l. 15: In Definition 6.10, move the entire second sentence "For posets, ... equivalent (exercise!)." to the end of the paragraph, and in that same sentence replace the word "posets" by "lattices".
p. 133, l. 6: in the final line of the displayed sequence of formulas, replace " \wedge " by " \Rightarrow " .
p. 136, l. 7: change "functions" to "arrows".
p. 138, l. 11: delete both sets of square brackets (around a and b) on the left-hand side of "implies".
p. 143, l. 19: in the displayed formula, change \uparrow to \downarrow.
p. 143, l. 20: change "lower" to "upper" and "below" to "above", to read "be the upper set above i, regarded ..."
p. 143, l. 22: in the displayed diagram, change \uparrow to \downarrow.
p. 143, l. -11: in the sentence "this determines ...", change \uparrow to \downarrow.
p. 143, l. -9: change " j\leq i " to " j \geq i ".
p. 143, l. -8: in the displayed formula, change \uparrow to \downarrow.
p. 143, l. -6: in the displayed formula, change" j\leq i " to " j \geq i ".

Chapter 7:
p. 152, bottom, displayed diagram: 2 occurrences of " P " should instead be " \mathcal{P} ".
p. 153, l. -14: replace \subset by \subseteq and add a prime sign ' to the B to read:
h^{-1}(U)\subseteq B'
p. 153, l. -13: delete the prime sign ' from the first B, and add one to the second "B" (and leave \subset as is here) to read:
$U\subset B$ is an ultrafilter in B'
p. 153, l. -12: delete the prime sign ' from the B.
p. 160, bottom, displayed diagram: " P " should instead be " \mathcal{P} ".
p. 161, top, displayed diagram: 3 occurrences of " P " should instead be " \mathcal{P} ".
p. 163, top diagram: in the lower left-hand corner, add another prime sign ' to the first occurrence of " A " to make " F(A' , B) " into " F(A" , B) ".
p. 167, l. 3: change "Q \rightarrow P" to "P \rightarrow Q".
p. 179, l. 6: in the displayed formula, replace $(b < a \Rightarrow b = 0)$ by $(b < a\ \text{implies}\ b = 0)$.
p. 182, l. -10: in the displayed formula, replace "P" by "\mathcal{P}" (2 times).
p. 182, l. -8: replace "P" by "\mathcal{P}" (2 times).
p. 182, l. -7: replace "P" by "\mathcal{P}" (1 time).

Chapter 8:
p. 198, l. 7: in the middle term of the 3-fold equation, (x, c) should be a subscript. So replace " \vartheta(x, c) " by " \vartheta_(x, c) " .

Chapter 9:
p. 208, l. 17: in definition 9.1, first display, "U" should be the same typeface as "F", and not bold-face (it should be the same as in the next display).
p. 210, l. 7: replace "counit" by "unit".
p. 212, l. -9: in the second square diagram on this page, replace " U(g)_* " by " (Ug)_* ".
p. 212, l.-9: same diagram, the subscripts on the lower occurrence of \phi should be C, D' rather than C', D.
p. 212, l. -7: in the first term of the displayed equations, replace " U(g)_* " by " (Ug)_* ".
p. 212, l.-5: the subscripts on \phi should be C, D' rather than C', D.
p. 212, l.-4: the subscripts on \phi should be C, D' rather than C', D.
p. 213, l. 3: in the displayed diagram, replace " F(C) " by " FC " .
p. 215, l. -14: in Definition 9.6, first display, "U" should be the same typeface as "F", and not bold-face (it should be the same as in the next display).
p. 222, l. -13: replace the italicized word " exists " by the symbol $\exists$
(presumably the italics are produced by $exists$, so one need only add the missing command slash " \ " .
Thus if $ $ are already present, do not add another pair).
p. 233, l. 7: in the displayed equation, in the last term (the summand), replace i by j to give " A_j ".
p. 233, l. 9: in the first displayed equation, in the last term (the summand), replace i by j to give " A_j ".
p. 233, l. 10: in the second displayed equation, in the last term (the summand), replace i by j to give " A_j ".
also, in the index to the sum exchange i and j to give " \sum_{j \in \alpha^{-1}(i) } ".
p. 233, l. 11: in the third displayed equation, in the index to the sum exchange i and j to give " \sum_{j \in \alpha^{-1}(i) } ".
p. 233, l. 12: in the fourth displayed equation, replace j by i .
p. 235, l. -5: in the first sentence, replace the last occurrence of " F " by \mathcal{F}, to read: "Thus, we want to construct ... \mathcal{F}$."
p. 242, l. 2: after "using the fact that" insert " $\mathbf{C}$ has and " to read "using the fact that $\mathbf{C}$ has and U preserves these."
p. 249, l. -2: replace \mathcal{P} by \mathbf{P}.
p. 250, l. 3: in the display, replace two occurrences of \mathcal{P} by \mathbf{P} .
p. 250, l. 10: in the displayed diagram, top left corner, replace superscript I by J to read " \Sets^J "
p. 250, l. -10: replace " P " by " \mathcal{P} ".
p. 250, l. -7: in the display, replace " P " by " \mathcal{P} ".
p. 250, l. -4: in the displayed diagram, replace 2 occurrences of " P " by " \mathcal{P} ".
p. 250, l. -1: replace 2 occurrences of " P " by " \mathcal{P} ".
p. 251, l. 1: following "Consider ... commute." insert " (Hint: first prove that a diagram of left adjoints commutes up to isomorphism if and only if the corresponding diagram consisting of their right adjoints does so.) "

Chapter 10:
p. 257, l. -5: following "thing" insert "as" to read "exactly the same thing as a ..."

Index:
The numbering in the index is consistently off by 2 pages for all entries referring to chapters 9 and 10, pp. 207--277.