

ERRATA in “Lambda-calculus and Combinators, an Introduction”

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P.16. In Theorem 1.41, “M”, “N” should be “P”, “Q”. Also the same correction is needed on p.80 in Corollary 7.16.1.

P.36. In Example 3.5(b), 4th line, “ Z_n ” should be “ Z_k ”.

P.61. In Discussion 4.25, a footnote is needed to say that when \mathbf{Z} is added to CL the definition of *non-redex constant* in Definition 2.1, p.22, should be changed so that \mathbf{Z} is not a non-redex constant (but $\hat{0}$ and $\hat{\sigma}$ are).

P.73. In Definition 6.11, a fourth axiom should be inserted: $(\forall x)(\mathbf{1}x = x)$.

Pp.187, 190. In the abstraction rule, “ $(\lambda x : M)$ ” should be “ $(\lambda x.M)$ ”.

P.197. In the 5th line up from the bottom, the display has “: *” missing; that is, “ $v : * \vdash (\lambda u : *. u \rightarrow u)v$ ” should be “ $v : * \vdash (\lambda u : *. u \rightarrow u)v : *$ ”.

P.223. In Definition 14.9, the last line, “=” should be “ \sim ”.

P.225. As a consequence of the change to the last line of p.223, Lemma 14.17 should be slightly re-written as follows.

Lemma 14.17. Let $\mathbb{D} = \langle D, \bullet, i, k, s \rangle$ where $\langle D, \bullet \rangle$ is an applicative structure and $i, k, s \in D$. Then \mathbb{D} is a model of $\text{CL}w$, $\text{CL}\beta_{ax}$ or $\text{CL}ext_{ax}$ iff \mathbb{D} satisfies all the provable equations of the corresponding theory.

P.233. In line 17, “ys” should be “y’s”.

P.265. In Lemma 16.48, “ $n, r \geq 0$ ” should be “ $r \geq 0$ ”.

P.304. In Remark A3.25, last line but one, “is slightly” should be “slightly”.

P.338. In the Index, items “ $(\text{CL}wR)^{\rightarrow}$ ” and “ $(\text{CL}wZ)^{\rightarrow}$ ”, parentheses and “w” should be deleted.