

ERRATA IN A PRIMER OF SUBQUASIVARIETY LATTICES

Here are the errors we have found so far in *A Primer of Subquasivariety Lattices*.

- (1) Page 99, line -4 should say “Thus $\text{Pre}(\mathbf{G})$ *contains* the two preclops in that figure.” In fact, there is a third preclop not drawn in Figure 4.3, with $\gamma(s) = v$ and $\gamma(x) = 1$, so that $\mu < \gamma < \lambda$.
- (2) Page 99, line -2 would be better as “In Example A.4 of Sect. 4.1 ...”
- (3) Pages 167–169. The assignment of predicates and finding the laws of \mathcal{K} are described here. For each compact element $p \in S$ except $\hat{z} = 0_{\mathbf{S}}$, there is a predicate P in the language corresponding to p . In Step 6 of the construction, the predicate \mathcal{O} (or W) assigned to $1_{\mathbf{S}}$ is interpreted so that $\mathcal{O}(x)$ becomes $x \approx e$ for a constant e . In order for this to make sense, $1_{\mathbf{S}}$ should be compact. This was not made clear in the Primer, though it was implicit in the paper Nation [91] on which this part is based.
- (4) Page 193 The hypothesis of (β) in Lemma 7.19 should include that \mathbf{S} is finitely generated.
- (5) Page 194, line 6, $\ker \sigma$ could also contain relations $P(u)$ with $u \in W \setminus S$ that do not hold in \mathbf{U} . This does not affect the conclusion.
- (6) Page 194. Theorem 7.20, when properly dissected, actually describes sufficient conditions for Step 6 of a shortstyle representation to work. This omission has been supplied in a later paper of Hyndman and Nation. It can be stated thusly:

Theorem 1. *Assume $\mathbf{L} \cong \mathbf{S}_p(\mathbf{S}, H)$ with $1_{\mathbf{S}}$ compact and satisfying one of the following properties. Then there exists a quasivariety \mathcal{K} in a language with equality such that $\mathbf{L} \cong \mathbf{L}_q(\mathcal{K})$.*

- (2) *H consists of a single operator h satisfying $h^2(x) = h(x) \geq x$.*
- (3) *The operators of H form a right-zero semigroup, i.e., $hk(x) = k(x)$ for all h, k and at least one $h \in H$ is increasing, $h(x) \geq x$.*

- (11) Page 227, line -3, should read: if $H \leq K$, then $S_p(\mathbf{S}, K) \leq S_p(\mathbf{S}, H)$.
- (12) Page 262, lines 12–13 claim that the operator γ_4 on \mathbf{N} does not have a longstyle representation. A slight modification of the subsemilattice representation given there does in fact yield a longstyle representation of (\mathbf{N}, γ_4) . This will be included in a paper of Hyndman and Nation.
- (13) Page 263. $\mathbf{B}_3[c]$ can be represented as $\text{Sub}(\mathbf{S}, \wedge, 1, H)$, but the construction given in Figure A.2 is wrong. This is rectified in the upcoming paper of Hyndman and Nation.