

Introduction to Mathematical Logic

(Extended Edition)

errata

1. **p.91.** Exercise 2.10, in the second line, “... implies $f(X) \subseteq F(Y)$.” should be: “... implies $f(X) \subseteq f(Y)$.”

2. **p.111.** Several occurrences of “may not” should be changed to “does not”, namely, at lines::

10-11: “... on x but may not halt...” should be “... on x but does not halt...”

-13: “...YES, but may not halt...” should be “...YES, but does not halt...”

-9: “...NO, but may not halt...” should be “...NO, but does not halt...”

3. **p.180.** Exercise 6.4, the boolean table for \uparrow . The **1** and **0** along the diagonal should be swapped, i.e., the table should be:

$x \uparrow y$	1	0	: y
x :	1	0	1
0	1	1	

4. **p.211.** In Definition 8.22, conclusion of the rule **MP** has missing Γ on the left of \vdash_N . The conclusion of the rule should be: $\Gamma \vdash_N B$.

5. **p.237.** The proof of Lemma 10.2 is by induction on the complexity of the context $F[.]$, not of $F[A]$. The first special case is $F[.] = [.]$, atomic case of $F[.]$ gives special case or no substitution, and the inductive cases should all have $[A]$ replaced by $[.]$ on the left of ::.

6. **p.273.** The example rules i) and ii) should have added Γ to the left of \vdash_N ... They illustrate general situation, and not only when the example formulae are provable without any Γ .