

Errata

to

A Concise Introduction to Mathematical Logic

Second Edition

New entries are put at the beginning of the listing
in order to simplify control by the reader.

Page 170, line 7 from below:

Σ *instead of* Π

Page 178, line 7 from below:

$k < lb$ *instead of* $k < b$

Page 198, line 5 from below:

unprovable *instead of* provable

Page 30, line 3:

$X \cup \Lambda$ *instead of* X

Page 196, three corrections:

line 15: ... leads with (a) to the contradiction $\vdash_T \text{prov}(\gamma) \equiv_T \neg\gamma$.

instead of ... leads to a contradiction as in Theorem 5.1'.

line 21: $\forall x\varphi$ *instead of* $\varphi(x)$

last line footnote: $\text{bwb}(x) \equiv_{\mathcal{N}} \text{prov}(x)$ *instead of* $\text{bew}(y, x) \equiv_{\mathcal{N}} \text{prov}(y, x)$

Page 72, line 6 from below:

in *instead of* to

Page 216, two corrections:

Exercise 1, 1st line: 182 *instead of* 86

replace second line of Exercise 2 with

(a) Euclid's lemma, that is $(\forall a, b > 0)\exists x\exists y(a \perp b \rightarrow ax + \underline{1} = by)$.

Exercise 4, two times:

$D1$ – $D3$ *instead of* $D1$ – $D4$

Page 220, line 3 from below:

above *instead of* below

Page 238, line 9 from below:

$\wp(a, b) < \wp(a, b) + b + 1$ *instead of* $\wp(a, b) < \wp(a, b) + a + 1$

Page 40, footnote first line

$h\vec{a} = h\vec{b}$ *instead of* $h\vec{a} = \vec{b}$

Page 8, Exercise 2: Delete last claim.

Page 30, line 3: Delete the word "is"

Page 105, line 6:

which *instead of* FF

Page 48, replace second line of Exercise 4 with

(b) $\alpha, (\alpha \wedge \xi) \in \mathcal{L} \Rightarrow \xi \in \mathcal{L}$, (c) $\alpha, (\alpha \rightarrow \xi) \in \mathcal{L} \Rightarrow \xi \in \mathcal{L}$.

Page 181, *replace second line of Exercise 2 with*

$a, a \tilde{\wedge} b \in \dot{\mathcal{L}} \Rightarrow b \in \dot{\mathcal{L}}$, (c) $a, a \tilde{\rightarrow} b \in \dot{\mathcal{L}} \Rightarrow b \in \dot{\mathcal{L}}$, for arbitrary $a, b \in \mathbb{N}$.

Page 182, line 5 from below:

Replace axiom N11 by $Sx = x + 1$. ($0 \neq 1$ is derivable).

Page 183, line 4 from below: x *instead of* y

Page 157, line 15 from below:

will cause some particular problems (cf. Hodges, Model Theory, p.387)

instead of

is irrelevant

Page 214, line 12: *Proof of equation (b) has a flaw. Corrected in Chapter 7.*

First line in Remark 2: Exercise 3 instead of Exercise 4.