ERRATA (26/12/2011)

Page	Line	Where is	Should be
126		There is a mistake in the proof of Lemma 1.4	See corrected proof below
128	-12	V.4.8	V.5.8

Corrected proof of Lemma VII.1.4 (page 126):

First, observe that if β is a limit ordinal and $(1,c) \in \pi_1\nu_\beta(U)$ then $(1,c) \in \nu_\gamma(U)$ for some $\gamma < \beta$: indeed, by compactness there is a finite A with $\bigvee A = 1$ and $A \times \{c\} \subseteq \bigcup\{\nu_\gamma(U) \mid \gamma \text{ non-limit}, \ \gamma < \beta\}$ and by IV.5.6 then $(1,c) \in \nu_\gamma(U)$.

Now let the statement not hold. Then there exists a $(1,b) \in \nu_\alpha(U)$ with $\alpha > 1$ least among such $(1,b)$'s. Obviously α is not a limit ordinal, and by the observation α is not a successor of a limit ordinal β either (else $b = \bigvee B$ such that all the $c \in B$ are in a $\nu_\gamma(U)$ and by the minimality of α, $(1,c) \in \pi_2\pi_1(U)$ and $(1,b) \in \pi_2\pi_2\pi_1(U) = \pi_2\pi_1(U)$, a contradiction). Thus, $(1,b) \in \nu\nu(V) = \pi_2\pi_1\pi_2\pi_1(V)$ for $V = \nu_\gamma(U)$. Then $b = \bigvee B$ for some B with $\{1\} \times B \subseteq \pi_1\pi_2\pi_1(V)$, and for each $c \in B$, $(1,c) \in \pi_1\pi_2\pi_1(V)$ and we have A_y such that $\bigvee A_y = 1$ and $A_y \times \{y\} \subseteq \pi_2\pi_1(V)$. By compactness we can assume that A_y is finite and by IV.5.6, $(1,y) = (\bigvee A_y, y) \in \pi_2\pi_1(V)$ and hence

$$(1,b) = (1, \bigvee B) \in \pi_2\pi_2\pi_1(V) = \pi_2\pi_1(V) = \nu_{\alpha-1}(U),$$

a contradiction. □