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***Many-valued logics: A mathematical and computational introduction.***

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**Addenda & Errata**

(additions in blue; corrections in red; notes in green)

- p. 12, **Def. 2.1.6.** ... substituting  $p_1, \dots, p_n$  by some **variables**  $\sigma p_1, \dots, \sigma p_n$ . (The objective is to introduce the *general notation*  $p/\sigma p$  for substitutions.)
- p. 16, **Def. 2.2.11.** ... (e)valuation function  $val_{\mathcal{I}} : F, \Sigma \rightarrow W$  ...
- p. 19, **Def. 2.4.6.** ...  $\neg$  is applied only to **atoms** ...
- p. 20, **Prop. 2.4.9.5.** If  $x$  appears as a free variable in  $B$ , ...
- p. 41, **Def. 3.1.7.** ... a relation  $\Vdash \subseteq 2^F \times F$  satisfying ...
- p. 48, **Def. 3.2.11.** ~~We say that  $\phi$  is invalid or~~ *contingent* iff it is...
- p. 63, **Prop. 3.5.3.** ~~(T8)  $((A \rightarrow B) \wedge (B \rightarrow C)) \rightarrow (A \rightarrow C)$~~
- p. 156, **Prop. 5.5.18.** ... **not** uniform, and...
- p. 177, **5.7.4.** ... condition QD, ...
- p. 180, Remark to **Example 5.7.7.**, l. 2. ... replacing  $x$  with some Skolem **constant**,
- ...
- p. 237 (last line)  $L = (\mathcal{L}, \mathfrak{M}_L, \mathcal{S}_L)$
- p. 238, **Def. 7.4.17.** Given some  $n$ -valued logic  $L = (\mathcal{L}, \mathfrak{M}_L, \mathcal{S}_L)$ ...
- p. 249, **Def. 7.5.4.**  $Cn_{\mathbb{C}}(\phi) = \langle \{ \mathcal{M}_\phi \mid \mathcal{M} \in \mathfrak{C}, \models_{val_{\mathcal{M}}} \phi \} \rangle$
- p. 263, **Prop. 8.2.6.3.**  $(R4^*) \quad \frac{S_1[P_1] \quad S_2[P_2] \vee C}{C\sigma}$
- p. 272, **Def. 8.3.2.** ... (cf. 5.7.15):<sup>5</sup> (corrects the location of the footnote indicator)
- p. 274, **Def. 8.3.8.**  $\frac{C_1 \quad C_2}{(C_1 - \{L_i\}) \cup (C_2 - \{M_j\})}$
- p. 291, **Def. 9.2.3.**  $R \subseteq A^n$ , i.e.  $R$  is a subset of  $\underbrace{A \times \dots \times A}_n$ . (That is, remove the subscripts in  $A_1 \times \dots \times A_n$ .)
- p. 293, **Def. 9.2.6.8.**  $glb(B) = x$  or  $inf(B) = x$
- p. 293, **Def. 9.2.8.3.** The **filter** generated by an element  $x$  in a poset  $\mathcal{R}$  is the upset  $\uparrow \{x\} = \{y \in \mathcal{R} \mid y \geq x\}$ .
- p. 298, **Prop. 9.4.2.**  $glb(x, y) := x \cap y$
- p. 302, **Def. 9.4.11.1.a.**  $x \cup y \in A$
- p. 302, **Def. 9.4.11.2.a.**  $x \cap y \in B$

Last updated: October 2018