

Errata for “Filters on Posets and Generalizations” [1]

Proposition 7: “Every co-brouwerian lattice has least element” → “Every non-empty co-brouwerian lattice has least element”.

Proof of theorem 17: $(a \setminus^* b) \setminus^* c = \{z \in \mathfrak{A} \mid a \setminus^* b \subseteq c \cup z\} \rightarrow (a \setminus^* b) \setminus^* c = \bigcap \{z \in \mathfrak{A} \mid a \setminus^* b \subseteq c \cup z\}$.

Corollary 17: “ \mathfrak{F} is an atomically separable” → “ \mathfrak{F} is atomically separable”.

Definition 38: “whenever $\bigcup^3 S$ exists for $S \in \mathcal{P}\mathfrak{A}$ ” → “whenever $\bigcup^3 S$ exists for $S \in \mathcal{P}\mathfrak{F}$ ”.

Definition 39: “whenever $\bigcap^3 S$ exists for $S \in \mathcal{P}\mathfrak{A}$ ” → “whenever $\bigcap^3 S$ exists for $S \in \mathcal{P}\mathfrak{F}$ ”.

Theorem 35: “for any $\mathcal{F}_0, \dots, \mathcal{F}_m$ ” → “for any $\mathcal{F}_0, \dots, \mathcal{F}_m \in \mathfrak{F}$ ”.

Proof of theorem 45: “taken into account the theorems 10 and 29” → “taken into account the corollary 10 and theorem 23”.

Theorem 52: “ a be prime” → “ a is prime”.

Proof of theorem 52: “ a is prime” → “ a be prime”.

Theorem 54: “ $S \cap \partial\mathcal{F} \neq \emptyset$ ” → “ $S \cap \partial\mathfrak{F} \neq \emptyset$ ”.

Proof of theorem 56: “ $a \cup^{\mathfrak{F}} b \in \star S$ ” → “ $a \cup^{\mathfrak{F}} b \in \star\mathfrak{F}$ ” and “ $a \in \star S \vee b \in \star S$ ” → “ $a \in \star\mathfrak{F} \vee b \in \star\mathfrak{F}$ ”.

Proof of theorem 59: “used the theorems 29 and 29” → “used theorem 29”; “used the theorems 23 and 10” → “used theorem 23 and corollary 10”.

Theorem 65: “which is an atomistic lattice” → “which is a complete atomistic lattice”.

Theorem 68: “for every $a, b \in \mathfrak{A}$ ” → “for every $a, b \in \mathfrak{F}$ ”.

Proof of proposition 41: Replace all occurrences of $\mathfrak{A} \rightarrow \mathfrak{F}$.

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Theorem 47: “distributive lattice with least element 0” → “distributive lattice with greatest element”

Proof of theorems 12: Messed \subseteq and \supseteq .

Proof of theorem 55: $\text{card } A \rightarrow \text{card } T$.

Proof of proposition 39: $S \rightarrow [S]$.

Proposition 13: $\text{atoms } a \subset \text{atoms } b \Rightarrow a \subset b$ replace with $a \subset b \Rightarrow \text{atoms } a \subset \text{atoms } b$.

Proof of theorem 4.53: Should read “We have $L \cap^{\mathfrak{A}} \mathcal{F} \neq \emptyset \Rightarrow K_L \cap^3 \mathcal{F} \neq \emptyset \Rightarrow L \cap^3 \mathcal{F} \neq \emptyset \Rightarrow L \cap^{\mathfrak{A}} \mathcal{F} \neq \emptyset$ ”.

Bibliography

- [1] Victor Porton. Filters on posets and generalizations. *International Journal of Pure and Applied Mathematics*, 74(1):55–119, 2012.