

Corrections for the books Cylindric Algebras, Part I and Part II and Cylindric Set Algebras

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Part I

Part I, p. 42, line 11 from top. At the beginning of the line, $\sigma = \tau$ in place of $\sigma \neq \tau$; at the end of the line, $\sigma \neq \tau$ instead of $\sigma = \tau$.

Part I, p. 78. The observations following Theorem 0.2.38 were not reconstructed by the authors. But G. Tardos, in 1986, did prove that there is a finitely generated pseudosimple algebra which is not simple; of course it has infinitely many operations.

Part I, p. 146₁₅: replace "gonditions" by "conditions".

Part I, p. 152¹: replace "=" by " \subseteq ".

Part I, p. 158: In Problem 0.6 one should assume that α is less than the first uncountable measurable cardinal; then the consistency of a positive solution relative to the consistency of certain other axioms has been shown by Magidor and Laver (Trans. Amer. Math. Soc. 249, p. 97, unpublished respectively)

Part I, p. 171, line 13 from bottom. Replace " $\alpha \neq 0$ " by " $\alpha \geq 2$ ".

Part I, p. 171, lines 9-11 from bottom. There are two G_{S_0} 's; see Part II, p. 9.

Part I, p. 172, line 3 from bottom. Replace "resulst" by "results".

Part I, p. 258. It is false in general that the decision problem for the set of identities holding in all Mn_α 's has an affirmative solution. See the separate comments on the problems, concerning Problem 4.11 in Part II.

Part II, p. 54, line 11 from bottom. This should read as follows:

7.2. For example, $I_\infty Cs_\alpha = \mathbf{Sup}({}_\infty Cs_\alpha^{\text{reg}} \cap Lf_\alpha)$ for $\alpha \geq \omega$.

Part II, p. 55, line 4 from the top. Should be: $\dots \mathfrak{R}_s(\kappa, \alpha) \dots$

Part II, p. 57, line 5 from the bottom. Should be: $\dots \subseteq I_\lambda Gs_\alpha$ for

Part II, p. 57, line 4 from the bottom. Replace " ${}_\lambda Cs_\alpha$ " by " ${}_\lambda Gs_\alpha$ ".

Part II, p. 68, line 19 from top. After " $x, y \in I$ " add " $x \neq y$ ".

Part II, p. 78, line 5 from top. Replace "(vi)" by "(vii)".

Part II, p. 101, line 8 from below. This line should read as follows:

(2) $s_\kappa^\lambda s_\mu^\kappa s_\lambda^\mu c_\lambda x = s_\mu^\lambda s_\kappa^\mu s_\lambda^\kappa c_\lambda x$ for all distinct $\kappa, \lambda, \mu < \alpha$.

Part II, p. 118, line 12 from the bottom. Should end: $\dots \mathfrak{R}_\alpha \mathfrak{A} \in \mathbf{K}_\alpha$.

Part II, p. 125, just before Theorem 4.1.43. The sentence mentioned should be changed to: $\exists x(c_0 x \neq x) \rightarrow \exists x(x \neq 1 \wedge c_0 x = 1)$.

Part II, p. 126, line 6 from top. Replace "it" by "its".

Part II, p. 139, line 2 from below. Replace "4.2.18(iv)" by "4.2.17(iv)".

Part II, p. 147. In Remark 4.2.24. the reference should be to 4.1.22, not to 4.1.21.

Part II, p. 154, line 12 from below. Replace this line by the following:

not in the set $\{v_0, \dots, v_{\rho\xi-1}\} \cup \{v_{\kappa 0}, \dots, v_{\kappa(\rho\xi-1)}\}$:

Part II, p. 161, line 17 from the top. "... with ${}_p \mathbf{Fm}$..." rather than "... with ${}_r \mathbf{Fm}$ ".

Part II, p. 167, last line. " $Is({}_t \mathbf{Fm}_{\tau\Gamma}^\Lambda, {}_t \mathbf{Fm}_{\tau\Sigma}^\Omega)$ " rather than " $Is({}_t \mathbf{Fm}_{\tau\Sigma}^\Lambda, {}_t \mathbf{Fm}_{\tau\Sigma}^\Omega)$ ".

Part II, p. 167, line 5 from the bottom. "... $f\xi]$ " rather than "... $f\xi\}$ ".

Part II, p. 168, line 9 from the top. Replace "rather then" by "rather than".

Part II, p. 178, line 18 from the bottom. Replace "correapond" by "correspond".

Part II, p. 180, line 2 from the top. Replace "Of" by "of".

Part II, p. 199, line 4 from the top. Replace the initial "(" by "{".

Part II, p. 235, line 7 from the top. Replace this line by:

$$s_\tau^{[V]} X = \{u \in {}^\alpha U : u \circ \tau \in X\}$$

Part II, p. 243, line 15 from the top. Replace "is" by "in".

Part II, p. 246, line 9 from below. Replace " α " by "2".

Part II, p. 252, line 10 from the top. In the statement of Corollary 5.5.12, replace " Crs_α " by " ICrs_α ".

Part II, p. 291, first line of actual index. After " f_u^κ " put " $f(\kappa/u)$ ".

Part II, p. 300, line 5 from below: replace "61ff" by "60ff".

Part II, p. 301: add at the appropriate place:
schema of equations, 110

Cylindric Set Algebras

CSA, p. 65¹¹: $q(\alpha, \alpha \cdot \beta) \geq \log \dots$

CSA, p. 93₃: \dots iff $p_\kappa = w_\kappa/\overline{F}$, and hence \dots

CSA, p. 96₁: \dots is regular in $\mathfrak{A}_\mathfrak{B}$, and

CSA, p. 106¹⁰⁻¹¹: $\dots V_i \cap V_j$ for all distinct $i, j \in I$. Choose $ia \in I$ with $a \cap V_{ia} \neq 0$ for all \dots

CSA, p. 128⁶: I.7.27

CSA, p. 194⁶: Let $0 \neq Q \subseteq V$,

CSA, p. 243⁵: $\text{ICs}_\alpha = \text{Gws}_\alpha^{\text{comp}}$

CSA, p. 250₉: \dots Then $\beta \text{Gws}_\alpha^{\text{comp}} \subseteq \dots$

CSA, p. 275¹: hull of $\text{Nr}_\alpha \text{Gs}_\beta \dots$

CSA, p. 303¹⁰: b. $\text{UfUp} L_\alpha = \text{UfUp} \text{Rd}_\alpha L_\beta$.

CSA, p. 311¹²: $\text{rq}^+(\alpha) \geq \alpha + 1 + \dots$

CSA, p. 311¹³: $\dots q(\alpha, \beta) \leq \lceil \log_2(\beta - \alpha + 1) \rceil$

CSA, p. 311¹⁴: \dots for $\alpha \in H \cap 5$, and $\dots q^+(\alpha) \leq 1.5\alpha \dots$

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