

### *A Note on Correction*

By

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It has been pointed out to us by Professor M. Novotný that the system  $\mathfrak{B}$  is not independent (p. 183) and there is an error in the proof of the Lemma 4.3 in Chapter II (p. 218) in our paper entitled "Axiom of Betweenness" (J. Sci. Hiroshima Univ. Vol. 16 (1952) pp. 177-221, 399-408). The former fact (the dependency of the system  $\mathfrak{B}$ ) may occur only when some of  $a_i$  which appear in the assumption of the axiom B6 are equal. But we can prove the independency and sufficiency of the system  $\mathfrak{B}$  in the case when these  $a_i$  are all different. From such a point of view, our results are right under the following corrections:

- p. 181. In the axiom B6, the different letters  $a, b, c, \dots, a_1, a_2, \dots$  represent different elements, but  $x, y, \dots$  do not so. And the same agreement is used in the case of these axioms B6', B6'',  $\acute{B}6$ ,  $\grave{B}6$ , OB6, OB6[1], QB6 and OB6''.
- p. 183. Add "{bbb}" to Example 1.  
 For "Example 2" read "{bac} {cab} {baa} {bba} {aab} {abb} {bcc} {bbc} {ccb} {cbb} {aaa} {bbb} {ccc}."  
 For "Example 3" read "{baa} {bba} {aaa} {bbb}."
- p. 193, line 6. For " $(s \geq 2)$ " read " $(s \geq 1)$ ."
- p. 213, line 12. For "Putting  $x=y$  in the condition B6[2]" read "from B1 and B6[2]."  
 line 22. Correct the case (iii) as follows:  $|a_1 a_0 a_3| \cdot |a_0 a_3 a_2| \stackrel{B3, B5}{\implies} |a_1 a_0 a_2|$ . This contradicts  $|a_0 a_1 a_2|$ , so this case may not occur.
- p. 214. For "Example 3" read "{ $a_0 c a_0$ } { $a_0 a_0 c$ } { $a_0 c c$ } { $c a_0 a_0$ } { $c c a_0$ } { $a_0 a_0 a_0$ } {ccc}."
- p. 215, line 19. For "from BO, BO' and  $\acute{B}6$ " read "from BO, BO', B1, B2, B3, and  $\acute{B}6$ ."  
 line 22. For "from B1 and B6[3]" read "from B1, B2, B3, B4, B5 and B6[3]."
- p. 216, line 8. After ( $\equiv(5)$ ), insert "And B7 follows from these axioms".  
 lines 35, 36. For "from B3, B4, B6[4] and B7" read "from B1, B2, B3, B4, B6[4] and B7."
- p. 217, line 28, After (5), insert "B1".
- p. 218, lines 14, 15. Correct the case 1 (b) as follows:  $|a_0 c b| \cdot |c b a| \stackrel{B5}{\implies} |a_0 b a|$ . But  $|a_0 b a|$  and  $|a_0 a b|$  are not compatible, so this is contradiction.
- p. 399, OB6; p. 401, OB6[1]; p. 407, OB6''. For " $b_i$ " read " $x_i$ " and insert " $x_i \neq a_i, a_{i+1}$ " at the end of these axioms.

- p. 399, OB7; p. 407, OB7<sub>1</sub>". For "e" read "x" and insert " $x \neq b, d$ " at the end of these axioms.
- p. 401, line 9. For " $\|b, d, e\|$ " read " $\|b, d, y\|(b, d \neq y)$ ."  
OB6[5]. For " $b, c, e, f$ " read " $x, y, u, v$ " respectively and insert " $a, x, y \neq ; d, u, v \neq$ " at the end of this axiom.
- p. 403, line 7; p. 406, line 22. For "B6" read "B6'".
- p. 407, OB7<sub>2</sub>". For "d" read "x" and insert " $x \neq a, b$ " at the end of this axiom.

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