



Title	Errata : The theory of construction of finite semigroups. I
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## ERRATA, VOL. 8

T. Tamura: *Indecomposable completely simple semigroups except groups.*  
 p. 38, line 15. (Lemma 7). For “ $\bar{D}$ ” read “ $D$ ”, for “ $D_E$ ” read “ $\bar{D}_E$ ”.  
 p. 38, line 25. (Lemma 8). For “ $(\lambda_1, \mu_1)$ ”, read “ $(\lambda, \mu)$ ”.  
 p. 40, line 24. For “is not” read “goes”.

T. Tamura: *The theory of construction of finite semigroups. I.*  
 p. 247, line 25. For “ $= \bigvee_a \bar{\varphi}_a$ ” read “ $= \bigvee_a \varphi_a$ ”.  
 p. 254, line 30. For “ $u$ ” read “ $z$ ”.  
 p. 254, line 31. For “ $z$ ” read “ $u$ ”.  
 p. 257, line 12. For “6” read “9”.  
 p. 260, line 21. (§ 11). For “idempotent” read “unipotent”.

## REMARK

On page 253, we defined a monomial  $f(x_1, \dots, x_n)$  of  $x_1, \dots, x_n$ , in which we wrote “we must contain a variable at least”, but this is to be excluded. (See Example 12, p. 254) However, we must add, “When monomials are used in an equality  $f(x_1, \dots, x_n) = g(x_1, \dots, x_n)$ , one at least of both sides must contain a variable at least”.

H. Noguchi: *On regular neighbourhoods of 2-manifolds in 4-Euclidean Space. I,*

Theorem 1 (p. 229) is false. But it holds if we restrict the concept of regular neighbourhood as follows :

By a regular neighbourhood of  $K$  in  $M^n$  which has no boundary we shall mean a subcomplex  $U(K, M^n)$  of  $M^n$ , such that  $|U(K, M^n)|$  is an  $n$ -manifold having  $|K|$  in its interior and  $|U(K, M^n)|$  contracts geometrically into  $|K|$ .

For “oriented” read “orientable oriented”, lines 23, 29 page 230 ; lines 3, 12 page 231 ; line 17 page 237 ; line 34 page 238 ; lines 11, 36 page 240 ; lines 27, 28 page 241 ; lines 3, 11, 17 page 242.

I withdraw the eighth line of page 231.

The proof of Lemma  $n$  in 4.2 (pp. 234-235) is not correct. Hence all the proofs in sections 4, 5 and 6 are erroneous.

Lemma 5.8 (pp. 239–240) is false. In fact, therein each point  $o_i$  is a double point, using the notation of the Lemma,  $D \cap o_i = o_i$  for each  $i$ . Hence  $D \cup (\bigcup_{i=1}^k D_i) \cup D_0$  is not a 2-sphere. Furthermore the assertion of this Lemma contradicts the unpublished result obtained by R. H. Fox and J. W. Milnor. This invalidates Theorem 4 (p. 240).

I thank Professor V. K. A. M. Gugenheim who pointed out errors and Professors R. H. Fox and J. W. Milnor who communicated their unpublished results to me.

#### ERRATA, VOL. 9.

T. Tamura: *The theory of construction of finite semigroups II*

- p. 7, line 26. For “0 in  $U^*$ ” read “0\* in  $U$ ”.
- p. 8, line 21. For “ $g(\alpha)$ ” read “ $\eta(\alpha)$ ”.
- p. 14, line 28. (Theorem 10). For “*a finite*” read “*an*”.
- p. 15, line 26. For “semilattice” read “semigroup”.
- p. 17, line 22. For “*lattice*” read “*semilattice*”.
- p. 21, line 2. For “defined” read “denoted”.
- p. 21, line 33. For “ $H$ ” read “ $S$ ”.
- p. 27, line 7. Insert “ $n \geq 2$ ” between “ $n - 1$ ” and “are”.
- p. 28, line 12. For “ $\varphi_a(y) = y$ ” read “ $\varphi_a(y) = y \neq 0$ ”.
- p. 31, line 17. For “23” read “24”.
- p. 31, line 32. Insert “for certain minimal element” next to “holds”.
- p. 34, line 8. For “ $\tau'$ ” read “ $\tau$ ”.
- p. 34, line 22. Delete “if exists”.
- p. 34, line 23. Insert “*if exists*” between “ $S$ ” and “*causes*”.
- p. 37, line 12. For “ $S'_{\sigma_{p(i)}}$ ” read “ $S'_{\sigma_1}$ ”.
- p. 41, line 6 (the case of  $\psi_e = abbb$  and  $\varphi_e = bbbb$  of the table). For “*none*” read “*isomorphic to 1048<sub>5</sub>*”.