

# A CORRECTION TO MY PAPER "A SOLE SUFFICIENT OPERATOR"

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In an accompanying note, see [1], Professor Gerald J. Massey points out that there is an evident error in a recent article by this author [2]. This writer intended to claim that the operator  $S$ , therein discussed, is complete with constants over  $X(n)$  for each natural number  $n$ . The article gives the distinct impression that the author is claiming completeness. The problem lies in the fact that the syntax for  $S$  is never made explicit. Something like the following paragraph should have been included.

Let a set  $W$  of well-formed formulas be defined by:

1. each propositional variable, e.g.,  $x, y, z$ , is in  $W$ ;
2. each constant of  $X(n)$  is in  $W$ ;
3. if  $\alpha, \beta$ , and  $\gamma$  are in  $W$ , then  $S\alpha\beta\gamma$  is in  $W$ ;
4.  $W$  contains only the expressions formed by 1, 2, and 3.

A set  $A$  of functions over  $X(n)$  is complete with constants if each element of  $A$  is defined by a formula in  $W$ .

In the classic definition of completeness, condition 2 above would be omitted. An alternative definition of completeness with constants would be to say that a set  $A$  is complete with constants if the union of  $A$  and the set of constant functions is complete. With this clarification, the result in the paper is correct.

## REFERENCES

- [1] Massey, G. J., "Concerning an alleged Sheffer function," *Notre Dame Journal of Formal Logic*, vol. XVI (1975), pp. 549-550.
- [2] Wesselkamper, T. C., "A sole sufficient operator," *Notre Dame Journal of Formal Logic*, vol. XVI (1975), pp. 86-88.

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