

Re: Review of Mueckenheims book.

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In article <1172684786.688642.175760@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>, mueckenh@xxxxxxxxxxxxxxxxxxx wrote:

The identity function on omega is an automorphism of omega, a function onto omega.

The word "automorphism" implies preservation of some algebraic structure of the set other than mere membership, in which case, the nature of that algebraic structure should be indicated.

Calling an identity function an "automorphism" in this context implies what does not exist, and is Wm trying to pretend he knows some mathematics.

If the identity function of every set exists, then the identity function of $P(\omega)$ should exist too. But the different cardinality of both functions, on ω and on $P(\omega)$ cannot be determined? It must be a very artificial construction.

The identity function on any set is quite simple, it maps each element of the set to itself:

$f: S \rightarrow S : s \mapsto s$, or
 $f(s) = s$ for every s in S .

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