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Warrensburg, MO 64093. *Some Extensions of Semi-closure Spaces*. Preliminary report.

Let X be a nonempty set and $P(X)$ the power set of X . A single-valued function c of $P(X)$ into $P(X)$ is called a *semi-closure operator on X* if it satisfies the following conditions:

- C1. $c(\emptyset) = \emptyset$,
- C2. $A \subset c(A)$ for each $A \in P(X)$,
- C3. for each $A, B \in P(X)$, $A \subset B$ implies $c(A) \subset c(B)$, and
- C4. $c(A) = c(c(A))$ for each $A \in P(X)$.

The pair (X, c) or simply X is called a *semi-closure space*.

In this paper, we will discuss some extensions of semi-closure spaces. (Received September 15, 2008)