

Graph-Theoretic Property: *atis*StronglyConnectedComponentsSet

(Graph-theoretic properties are those properties that are part of the meta-theory and have been abducted from graph theory to be used as a tool to provide solutions concerning the theory. Those solutions may be assigned as values to components or relations of the theory and thereby become part of the theory.)

Strongly connected components set, $S^{\mathcal{E}}$, =_{df} a set of components that are connected and there are at least two components that are unilaterally connected.

$$S^{\mathcal{E}} =_{df} \mathcal{X} = \{x \mid x \in \mathcal{R} \subset \mathcal{S}_0 \wedge \forall y \in \mathcal{R} [x \neq y \wedge (x,y) \in {}_cE \wedge \exists y \in \mathcal{R} ((x,y) \in {}_{uc}E)]\}$$

Strongly connected components set is a set of components, x ; such that, the components, x , are in a subset of the object-set, and for all distinct components of the subset, y , (x,y) are connected and there is a y such that (x,y) are unilaterally connected.

