Structural System Property: $_{atis}$Storeputness

(*Structural system properties* are those properties that are part of the theory and describe patterns of system and negasystem connectedness or partitions.)

Storeputness, $\mathbf{S}_{\mathcal{P}}(\mathbb{S}_{x})$, $=_{df}$ Partition of *system components* transmitted from *input* for which *system fromput control qualifiers* are "false."

$$\mathbf{S}_{\mathcal{P}} =_{df} \{x \mid x \in \mathbb{S}_0 \wedge \exists P(x) \in {}_{F_{\mathcal{P}}}\mathcal{L}_C\ \exists \sigma[f(x_{S_{\mathcal{P}}})(F_{\mathcal{P}} \times {}_{F_{\mathcal{P}}}\mathcal{L}_C) = \bot \wedge \sigma(x_{I_{\mathcal{P}}} \in I_{\mathcal{P}}) = x_{S_{\mathcal{P}}})]\}.$$

Storeputness is defined as the resulting transmission of input components and there exists fromput control qualifiers such that there is a function of the product of fromput and fromput control qualifiers that are "false," and there is a transmission function from input components to storeput components.

$\mathcal{M}$: **Storeputness measure,** $\mathcal{M}(\mathbf{S}_{\mathcal{P}}(\mathbb{S}_{x}))$, $=_{Df}$ a measure of storeput components.

$$\mathcal{M}(\mathbf{S}_{\mathcal{P}}(\mathbb{S}_{x})) =_{Df} |S_{\mathcal{P}}(\mathbb{S}_{x})| \qquad (1)$$

$$\mathcal{M}(\mathbf{S}_{\mathcal{P}}(\mathbb{S})) =_{df} \log_2(|S_{\mathcal{P}}(\mathbb{S})|) \div \log_2(|\mathbb{S}_0|) \qquad (2)$$

The choice of measure will depend on the application. Measure (1) is of value where the size of the storeput set is required for comparison, say, to the input set; that is, a comparison of actual feedstore is desired. Measure (2) is of value where a comparison to the system or between systems is desired that relates the amount of storeput as a fraction or percentage of the total system.