Structural System Property: *atis*Fromputness

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

Fromputness, $\mathbf{F}_{\mathcal{p}}(\mathfrak{S})$, $=_{df}$ Partition of *system* components for which negasystem fromput control qualifiers are "true."

$$F_{\mathcal{p}}(\mathfrak{S}) =_{df} \{\mathfrak{x} |\ \mathfrak{x} \in \mathfrak{S}_{\mathfrak{o}} \wedge \exists P(\mathfrak{x}) \in \mathscr{L}'_{C}\ [f(\mathfrak{x})(F_{\mathcal{p}} \times_{F_{\mathcal{p}}} \mathscr{L}'_{\mathcal{C}}) = \mathfrak{T}]\}.$$

Fromputness is defined as the set of *system* components for which there exist negasystem control-qualifiers such that there is a function from the product of the fromput components and the negasystem control qualifiers that are "true."

$\mathcal{M}$**: Fromputness measure,** $\mathcal{M}(\mathbf{F}_{\mathcal{p}}(\mathfrak{S}))$, $=_{Df}$ a measure of fromput components.

$$\mathcal{M}(\mathbf{F}_{\mathcal{p}}(\mathfrak{S})) =_{df} |F_{\mathcal{p}}(\mathfrak{S})| \qquad (1)$$

$$\mathcal{M}(\mathbf{F}_{\mathcal{p}}(\mathfrak{S})) =_{df} \log_2(|F_{\mathcal{p}}(\mathfrak{S})|) \div \log_2(|\mathfrak{S}_{\mathfrak{o}}|) \qquad (2)$$

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