

Funcoids as functions

A function $\alpha \in \mathcal{P}A \rightarrow \mathfrak{F}(B)$ corresponds to a funcoid if and only if it complies to the formulas (for all sets $I, J \in \mathcal{P}A$):

$$\alpha \emptyset = 0^{\mathfrak{F}(B)}; \quad \alpha(I \cup J) = \alpha I \sqcup \alpha J.$$

The funcoid f and function α are related by the formulas:

$$\langle f \rangle \mathcal{X} = \bigsqcap \{ \alpha X \mid X \in \mathcal{X} \};$$
$$\alpha X = \langle f \rangle^* X.$$