Definition (Feasible set of a design problem). We define the *feasible set* $K_{\mathbf{d}}$ of a design problem $\mathbf{d}: F^{\mathrm{op}} \times \mathbf{R} \to_{\mathbf{Pos}} \mathbf{Bool}$ as the subset of $F^{\mathrm{op}} \times \mathbf{R}$ for which \mathbf{d} is the indicator function, that is

 $K_{\mathbf{d}} = \{ \langle f^*, r \rangle \in F^{\mathrm{op}} \times R \mid \mathbf{d}(f^*, r) = T \}.$