Definition (Feasible set of a design problem). We define the *feasible set* $K_{\mathbf{d}}$ of a design problem $\mathbf{d}: \mathbf{F}^{\mathrm{op}} \times \mathbf{R} \to_{\mathbf{Pos}} \mathbf{Bool}$

as the subset of
$$\mathbf{F}^{\mathrm{op}} \times \mathbf{R}$$
 for which **d** is the *indicator function*, that is

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