**Definition** (Feasible set of a design problem) We define the *feasible set*  $\mathbf{K_d}$  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

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