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

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

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