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

$$\mathbf{d}: \mathbf{F}^{\mathrm{op}} \times \mathbf{R} \to_{\mathbf{Pos}} \mathbf{Bool}$$

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

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

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