

**Definition.** A *monotone design problem* (DP) is a tuple  $\langle F, R, h \rangle$  such that  $F$  and  $R$  are CPOs, and  $h : f \rightarrow \mathcal{A}R$  is a monotone and Scott-continuous function ([gierz03continuous] or [censi16codesign\_sep16]).