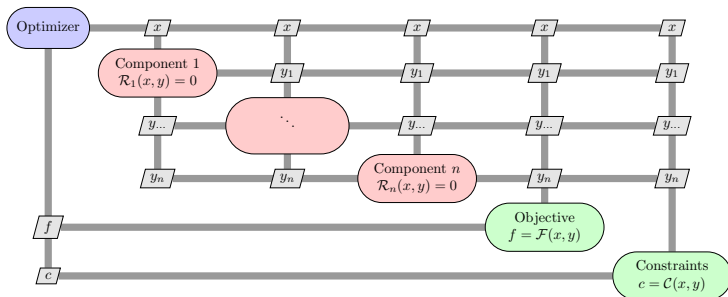


Reduced-space

$$\begin{aligned}
 & \min_x \quad \mathcal{F}(x, \mathcal{Y}(x)) \\
 & \text{s.t.} \quad \mathcal{C}(x, \mathcal{Y}(x)) = 0 \\
 & \quad \quad x \geq 0, \\
 & \text{with} \quad \mathcal{R}(x, \mathcal{Y}(x)) = 0,
 \end{aligned} \tag{3}$$



Full-space

$$\begin{aligned}
 & \min_{x,y} \quad \mathcal{F}(x, y) \\
 & \text{s.t.} \quad \mathcal{C}(x, y) = 0 \\
 & \quad \quad \mathcal{R}(x, y) = 0 \\
 & \quad \quad x \geq 0,
 \end{aligned} \tag{4}$$

