

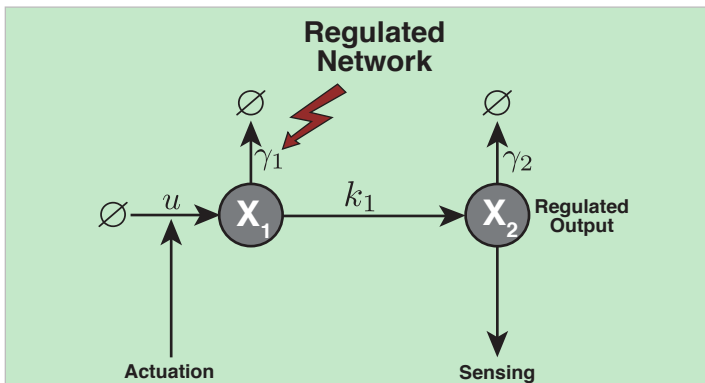
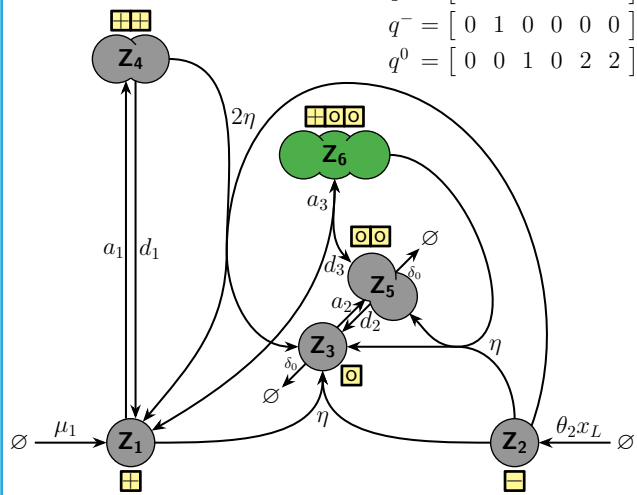
a

Control Action: $u = k z_6$

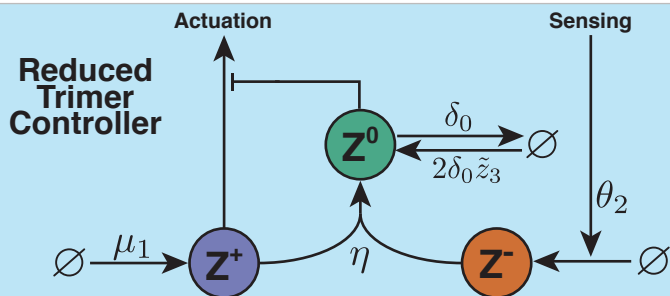
$$q^+ = \begin{bmatrix} z_1 & z_2 & z_3 & z_4 & z_5 & z_6 \end{bmatrix}^T$$

$$q^- = \begin{bmatrix} 0 & 1 & 0 & 0 & 0 & 0 \end{bmatrix}^T$$

$$q^0 = \begin{bmatrix} 0 & 0 & 1 & 0 & 2 & 2 \end{bmatrix}^T$$



b



Control Action

$$u = \mathcal{U}(z^+, z^0)$$

$$= k \tilde{z}_3$$

Algebraic Equations

$$\begin{cases} (z^+ - 2\tilde{z}_1 - \tilde{z}_3)^2 = \kappa_1 \tilde{z}_1 \\ (z^0 - 2\tilde{z}_2 - 2\tilde{z}_3)^2 = \kappa_2 \tilde{z}_2 \\ \tilde{z}_2(z^+ - 2\tilde{z}_1 - \tilde{z}_3) = \kappa_3 \tilde{z}_3. \end{cases}$$

c

