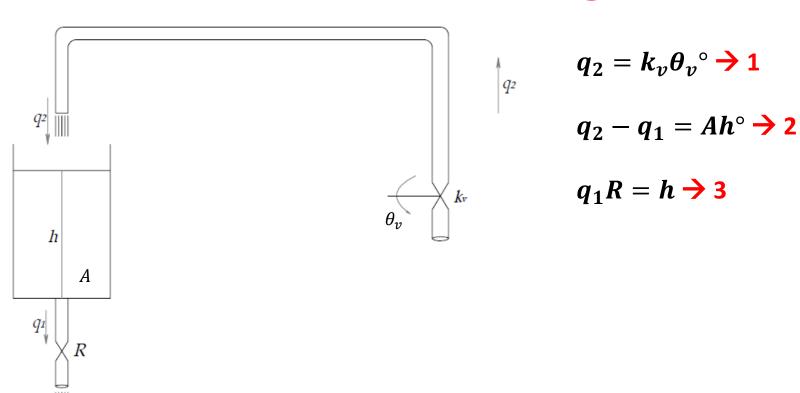
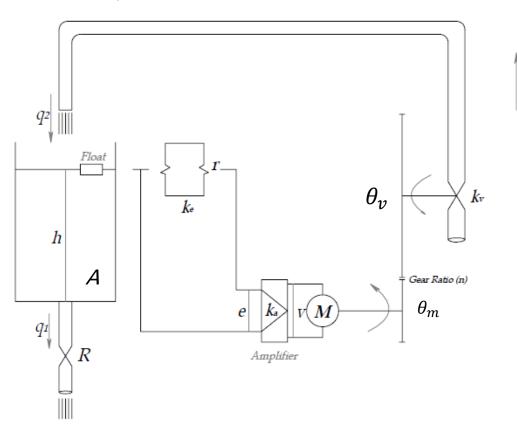
## **Tank Control**

## Mathematical Modeling



## Proportional Controller



 $q_2 = k_v \theta_v^\circ$   $q_2 - q_1 = Ah^\circ$   $q_1 R = h$   $(r - h)k_e = e$   $v = k_a e$   $\theta_m^\circ = 133v - 0.67\theta_m^\circ$   $\theta_v^\circ = \theta_m^\circ/n$