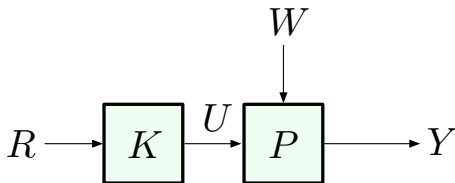


## Open-Loop Control



- ▶ cheaper/easier to implement (no sensor required)
- ▶ does not destabilize the system

e.g., if both  $K$  and  $P$  are stable (all poles in OLHP),

$$\frac{Y}{R} = KP$$

is also stable:

$$\{\text{poles of } KP\} = \{\text{poles of } K\} \cup \{\text{poles of } P\}$$