Summary

Feedback control:

- reduces steady-state error to disturbances
- ► reduces steady-state sensitivity to model uncertainty (parameter variations)
- ▶ improves time response

Word of caution: high-gain feedback only works well for 1st-order systems; for higher-order systems, it will typically cause underdamping and instability.

Thus, we need a more sophisticated design than just static gain. We will take this up in the next lecture with *Proportional-Integral-Derivative* (PID) control.