

Sensitivity of Control Systems to Parameter Variations

- A process, represented by $G(s)$, whatever its nature, is subject to a changing environment, aging, ignorance of the exact values of the process parameters, and the natural factors that affect a control process.
- The sensitivity of a control system to parameter variations is very important. A main advantage of a closed-loop feedback system is its ability to reduce the system's sensitivity.
- The system sensitivity is defined as the ratio of the percentage change in the **system** transfer function to the percentage change of the **process** transfer function.

$$T(s) = \frac{Y(s)}{R(s)}; \quad S(\text{sensitivity}) = \frac{\Delta T(s)/T(s)}{\Delta G(s)/G(s)} = \frac{\partial T / T}{\partial G / G}$$

$$T(s) = \frac{G(s)}{1 + GH(s)}; \quad S_T^G = \frac{\partial T}{\partial G} \cdot \frac{G}{T} = \frac{1}{(1 + GH)^2} \cdot \frac{G}{G/(1 + GH)}$$

$$S_T^G = \frac{1}{1 + G(s)H(s)} \quad (\text{Less } S \text{ for larger } GH)$$

Models And Sensitivity Of Control Systems Studies In Automation And Control Volume 5

Tzu Chuen Huang



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