

**EE 380**

# **Linear Control Systems**

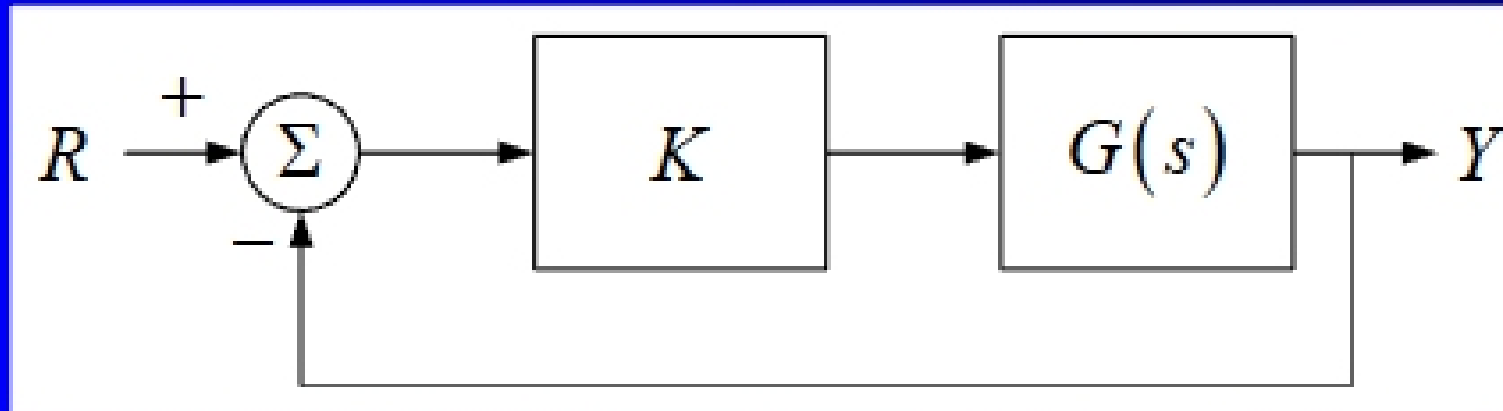
## **Lecture 24**

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# Lecture 24 Topics

- Root Locus Variations
  - Non Monic Polynomials
  - Root Locus with Respect to a Parameter
  - Improper  $G(s)$ : Root Locus with Travel Reversal
  - Complementary Root Loci
- Root Locus Examples

# Example 1: Non Monic Polynomial



$$G(s) = \frac{10(s+2)}{(s+3)(s^2+2s+2)}$$

- Sketch root locus for  $K > 0$