

EE 380

Linear Control Systems

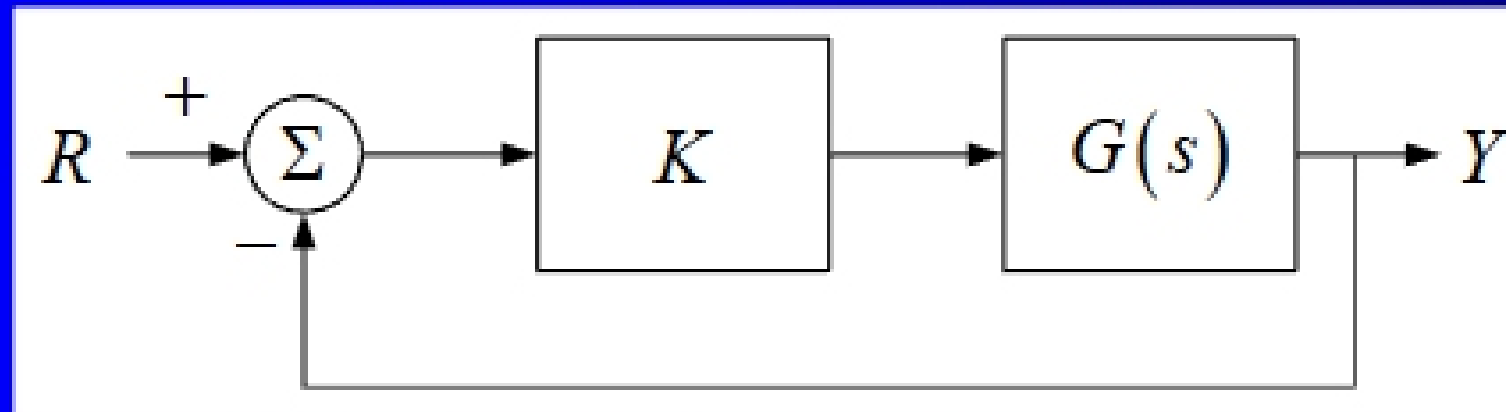
Lecture 23

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Lecture 24 Topics

- Root Locus
 - Construction Rules

Root Locus: Setup



- Assumptions on $G(s)$
 - proper ($n \geq m$)
 - Monic numerator and denominator

$$G(s) = \frac{s^m + b_{m-1}s^{m-1} + \dots + b_1s + b_0}{s^n + a_{n-1}s^{n-1} + \dots + a_1s + a_0}$$

- Sketch root locus for $K > 0$