Spring 2020

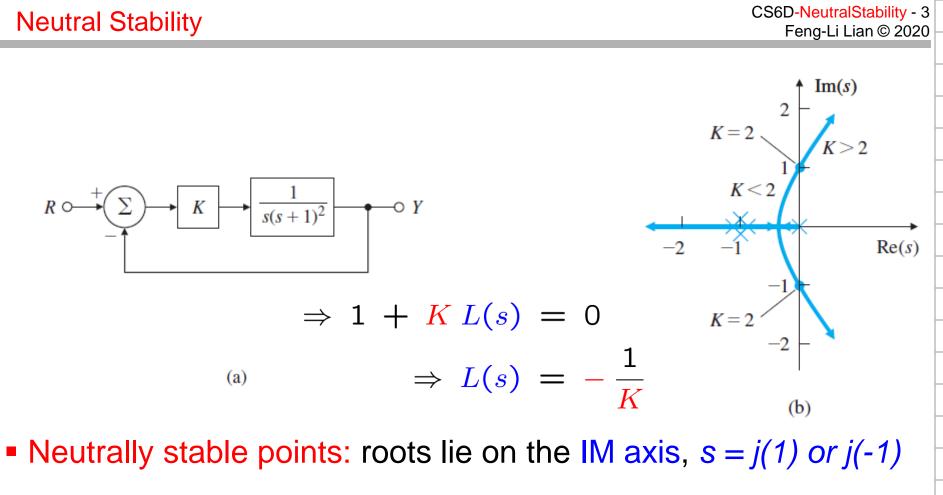
控制系統 Control Systems

Unit 6D Neutral Stability

Feng-Li Lian & Ming-Li Chiang NTU-EE Mar 2020 – Jul 2020 In early days of electric communications, most instruments were judged in terms of their frequency response. That is, when feedback amplifier was introduced, techniques to determine stability in presence of feedback were based on this response. Suppose the CL TF is known,

we can determine stability by inspecting the denominator.

- However, the CL TF is usually unknown.
- Another way, to determine CL stability only by evaluating frequency response of OL TF,



- In Section 5.1, all points on the locus have the property that
 - |KG(s)| = 1 $\angle G(s) = 180^{\circ}$ |KG(jw)| = 1 $\angle G(jw) = 180^{\circ}$

Neutral Stability

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