

- Allgemein zu jeder Kapitelüberschrift eine Frage.
- Application of root locus method to robust control? (with help of edge theorem)
- Is edge theorem applicable to discrete-time systems? (yes)
- What is the aim of H_∞ control?
- (What does loop shaping mean?)
- How does uncertainty influence the performance of a control system (general dynamical system, open loop system)? (problem of stability)
- Why is robust control examined by approximative solutions, why approximation? (keyword: 'sufficient')
- What is the benefit of matrix norms (function norms) in robust control?
- How many root loci do you need for a specific robust control problem? (more than one)
- Usually (up to now)

$$p_{cl,p}(s, \mathbf{q}) = 0 \rightarrow \Re\{s_i\} < 0?$$

value set: $p_{cl,p}(j\omega, \mathbf{q})$ (must not have a steady-state solution)

Robust stability is guaranteed if 0 is not a member of the value set.

$p_{cl,p}(j\omega, \mathbf{q}) = 0$ (steady-state oscillation with ω) \rightarrow Zero-Exclusion Theorem