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Text: Feedback Systems: An Introduction for Scientists and Engineers Author: Karl J. Astrom and Richard M. Murray

## **Evaluation**

- Basically Exam.
- I consider reports.
- I consider class attendance.

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## **First Report**

- Tell me your school background (including experience on control engineering).
- Introduce your research topics.
- What you want to learn from this class.

- Linear time-invariant (LTI) systems
  - Expression, Definition, Behavior
- Phase-plane analysis
  - Vector field diagram
  - Examples (Real eigenvalues)
  - Diagonalization
  - MATLAB codes
  - Examples (Real eigenvalues)
  - Examples (Duplicate eigenvalues)
  - Examples (Complex eigenvalues)
- Nonlinear systems