

AOE 3034

Final Exam Review Guide

This list supplements the Review Guides for the two earlier exams.

Block Diagrams

- Elementary blocks, summing points, branch points
- Transfer function as an operator on its input signal
- Classical negative feedback system
- Aggregating block diagrams

Typical Control Elements

- Proportional control
- Integral control
- Derivative control

Transient Response Specifications

- Maximum overshoot, M_p
- Peak time, t_p
- Settling time, t_s

Bode Gain and Phase Diagrams

- Gain & phase from $G(j\omega)$
- Magnitude decibel conversions
- Low and high frequency asymptotes