LAG, LEAD, & LAG-LEAD COMPENSATOR DESIGN PROCEDURES FOR LOW-PASS SYSTEMS

- The following procedures work well for actuators/plants that are “low-pass” systems to be controlled. That is, the KGH Bode Plot Magnitude “breaks downward.”

- Use the following procedures to arrive at a 1\textsuperscript{st} pass Lag, Lead, or Lag-Lead compensator design.

- Simulate the closed-loop system and check to see if the desired transient response has been achieved.

- If necessary, make adjustments to the compensator and simulate. Continue this process until desired transient response is achieved.