

Notes in ECEN 5448

Zachary Vogel

April 20, 2016

Announcements

last presentation that day.
10-14 minutes per group

Lecture

sample rate selection.

anti-aliasing filter.

effect of resonances
sensitivity to parameter variations
multi-rate sampling

when you have a resonance, stay away from $2\omega_r$, ω_r and $\frac{\omega_r}{n}$.

robust control, Robust and optimal control, K Zhou JC Doyle, K Zhou and JC Doyle

linear control
Linear Systems, T Kailath
Linear Systems Theory and Design CT Chen

optimal control
calculus of variations and optimal control Theory: A concise introduction, D Liberzon

multi-variable control
same Kailath book
Linear Systems Theory, JP Hespanha

System identification, aero course that covers it
System Identification: Theory for the User L Ljung

nonlinear systems and control (ECEN 7438 covers in detail)
Nonlinear systems, HK Khalil
Applied Nonlinear Control JE Slotine and W Li