EGR 8302: Digital Control

Introduction to digital control analysis & design techniques applied to discrete-time & sampled continuous-time systems. Sampling, difference equations, the Z-transform & modified Z-transform, discrete transfer function & state-space models, discrete-time regulator & observer design, stability of discrete-time systems, discrete linear quadratic regulator & linear quadratic Gaussian formulation. Prerequisite: EGR 8301 or equivalent with permission of the instructor.
Credits: 3.0