



ELEN 4320 / EECE 5320 – Digital Control Systems

Fred J. Frigo, Ph.D.
Spring 2017

Summary:

Review of sampling processes, discrete time linear systems analysis and z-transform. Discrete time and sampled data state-variable analysis. Stability analysis, time domain and frequency-domain analysis and design. Analysis, design and computer implementation of digital algorithms and control systems.

Location & Schedule:

Class meets Tuesdays & Thursdays: 5:30pm-6:45pm
Haggerty Engineering Hall - Room 140

Midterm Exam: Thursday, March 9, 2017

Final Exam: Tuesday, May 9, 2017 5:45pm-7:45pm

No class – Spring Break – Tuesday and Thursday, March 14-16, 2017

No class – Easter Break – Thursday, April 13, 2017

Grading:

Homework and Projects: 60%

Mid-term exam: 20%

Final exam: 20%

Required Text:

Ogata, Katsuhiko, Discrete-Time Control Systems, 2nd Edition, Pearson, New York, NY, 1995. Paperback Edition published - 2015.

ISBN-13: 978-0130342812

ISBN-10: 0133286428

Office Hours:

After class or by appointment – Haggerty Hall – Room 215

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