ELEN 4320 / EECE 5320 – Digital Control Systems

Fred J. Frigo, Ph.D.
Spring 2019

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 125

Midterm Exam: Thursday, March 7, 2019
Final Exam: Tuesday, May 7, 2019

No class – Spring Break – Tuesday and Thursday, March 12 & 14, 2019
No class – Easter Break – Thursday, April 18, 2019

Grading:
Homework: 60%
Mid-term exam: 20%
Final exam: 20%

Required Text:
Ogata, Katsuhiko. (2015). *Discrete-Time Control Systems - 2nd Edition*, Pearson, New York, NY.
Hard cover edition published - 1995.

ISBN-13: 978-0130342812
ISBN-10: 0133286428

Attendance Policy:
Attendance will be taken. Consult Marquette University Undergraduate Bulletin for additional details. Unexcused absences may result in supplemental assignments.

Office Hours:
After class or by appointment – Haggerty Hall – Room 235

Contact Info:
Email: Frederick.Frigo@marquette.edu or Fred.Frigo@med.ge.com
Office: (414)-271-3343