FALL 2023 : ELEC 7410: Stochastic Signal and System Analysis T Th 9:30 am – 10:45 am Broun 113

- **Instructor:** Prof. J.K. Tugnait 313 Broun, 4-1846, tugnajk@auburn.edu Office Hours: By appointment; please email.
- **Textbook**: J.A. Gubner, *Probability and Random Processes for Electrical & Computer Engineers*. Cambridge U. Press, 2006.
- **Refs.**: H. Pishro-Nik, Introduction to Probability, Statistics, and Random Processes, available at https://www.probabilitycourse.com, Kappa Research LLC, 2014.
 - A. Papoulis and S.U. Pillai, *Probability, Random Variables, and Stochastic Processes*, fourth ed., McGraw-Hill, 2002.
 - H. Stark & J.W. Woods, Probability and Random Processes with Applications to Signal Processing, third ed., Prentice-Hall, 2002.
 - A. Leon-Garcia, *Probability and Random Processes for Electrical Engineering*, third ed., Addison-Wesley, 2008.

Grading Basis:

Homework :	20~%	
Test I (in class & take-home) :	25~%	(Sept. 28, 2023)
Test II (Take-home) :	25~%	(Nov. 16, 2023)
Final :	30~%	(Take-home Nov. 30, 2023)

TEXT COVERAGE

Parts of chapters 1 through 5 ("undergraduate"), chapters 8,9,10, and parts of chapters 11 through 14 ("graduate") of *Gubner*.

ELEC 7410. Stochastic Signal and System Analysis (3). Lec. 3. Pr., Departmental approval. Applications of probability, random variables and stochastic processes in electrical engineering.