Course Webpage: http://www.winlab.rutgers.edu/spasojev/courses/541 This information as well as new announcements will be posted here.

Time and Location: MWed 6:10 - 7:30pm - SEC 218

Instructor: Professor P. Spasojević

Prerequisites: 16:332:501 System Analysis and 16:332:541 Stochastic Signals and Systems


The goal is to address the following list of topics.

1. Chernoff bound

2. Random waveforms (a selection of topics including random vectors obtained from random processes and multivariate Gaussian distribution)

3. Optimum receiver principles (complete Chapter 4 of the Wozencraft and Jacobs textbook).

4. Efficient signalling for message sequences (complete Chapter 5)

5. Coded systems (topics from Chapter 6 including transmitter implementation and receiver quantization)

Class Project: Groups of three to four students will work on a class project which will require research and simulations in Matlab. Time permitting, project presentations will be scheduled.

Exam: There will be one hourly exam and a final exam.

Grading: The hourly exam and the class project will each be worth 30%. The final is comprehensive and worth 40%. Homeworks will not be graded.

Faculty member data:
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Office hours: Monday and Wednesday at 5pm before class.