

GEORGIA INSTITUTE OF TECHNOLOGY
School of Electrical and Computer Engineering

ECE 4260

Problem Set #1

Date assigned: January 9, 2017
Date due: January 18, 2017

Reading: Chapters 2 and 3 in S & W. This should all be review.

Problem 1.1

Work problem 2.21 in Stark & Woods.

Problem 1.2

Work problem 2.22 in Stark & Woods.

Problem 1.3

Work problem 2.25 in Stark & Woods.

Problem 1.4

Work problem 2.27 in Stark & Woods.

Problem 1.5

Work problem 2.36 in Stark & Woods with 0.95 changed to 0.6826.

Problem 1.6

Work problem 2.37 in Stark & Woods with these modifications:

- For part (b), find $f_Y(y)$.
- For part (d), find $f_{Y|X}(y|x)$.