ECE 174 Homework # 2 – Due Tuesday 10/20/2015

READING

Immediately begin reading Sections 4.1-4.5. Particularly ponder the “Summary of Rank” chart on page 218. You can ignore examples 4.3.6, 4.4.6, 4.4.7, 4.5.2, and 4.5.3. (Later, but not now, we will read 4.6. The remaining sections of Chapter 4 will not be covered.)

Remember, the Solutions Manual is provided with the text: if you do not find an answer in my answer sheet, be sure to check the solutions manual.

TIME MANAGEMENT: Homework 2 and the First Computer Assignment

Homework 2 is due two weeks after homework 1, on Tuesday, October 20, 2015, in order to provide extra time to do the reading, homework, and perform the (partial) computer assignment tasks requested in problem 6 below.

You should start the assignments immediately to ensure that you do not run out of time prior to the due-date. (There will also be a third homework assignment, to be announcement shortly, due on Thursday, November 5, 2015, just prior to the midterm exam.)

It is up to you to not have a last minute time-crunch – you have been given plenty of time to accomplish the tasks assigned to you, provided you start immediately and manage your time well.1

COMPUTER ASSIGNMENT 1 - Due Tuesday, 11/3/15

The fully completed First Computer Assignment, with a written report, will be due Tuesday, November 3, 2015.2

MIDTERM ANNOUNCEMENT - Tuesday, 11/10/15

The midterm is scheduled for November 10, 2015. This is Tuesday of the seventh week of Fall Quarter, 2015. The midterm cannot be delayed or postponed.

HOMEWORK 2 - Due Tuesday, 10/20/15

1. 4.1.1, 4.1.2, 4.1.8. Also prove \( X + Y \) is a vector subspace of \( V \) if \( X \) and \( Y \) are vector subspaces of \( V \).
2. 4.2.1, 4.2.2.
3. 4.3.1, 4.3.2.
4. 4.4.1, 4.4.2.
5. 4.5.1, 4.5.6.
6. Turn in Matlab code (that’s all for now!) showing that you have performed Steps 1-5 of the first computer assignment.

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1In the “real world”, on the job, this is how things are done, with there always being the chance that you will bump into your manager in the hall prior to the due date whereupon he/she will likely ask specific questions regarding how your task is getting along, expecting you to respond with a detailed description of your progress to date.

2This is an absolute deadline as the remainder of the quarter is needed to perform the second computer assignment.