

EE 7715, Spring 2012

⓪

Information about test 2

The test 2 will take place on Wednesday March 21, 2012. The test will be closed books and closed notes. You will not be allowed to use calculators neither computers nor cell phones. The materials for test 2 follow on the next pages.

EE 7715, Spring ~~2010~~ ²⁰¹² (1)

(A) Materials for test 2

You will be responsible for the following materials:

1) From EE 3755 notes on the web you are responsible for part of Verilog notes #10. What you are mainly responsible for is the IEEE 754 standard for floating point numbers, both single format as well as double format.

To make myself clear, you are responsible for Verilog notes #10 from the very beginning up to the point "FLP Addition Hardware". You are not responsible for any Verilog models of floating point adders.


2) From EE 7715 notes on the web you are responsible for item 6 of the extra handouts. This item is a handout entitled "Higher Order counters".

 NEXT PAGE →

EE 7715, Spring ~~2010~~ ²⁰¹²
Materials for test 2 cont.

(2)

- 3) From EE 7715 notes on the web you are responsible for item 7 of the extra handouts. This item is a 2-page handout entitled "Introduction to Signed Digit Addition" and it will help you to better understand the topic of Signed-Digit Addition.
- 4) From the EE 7715 notes part I on the web you are responsible for pages ①e through ⑦e ("Signed-Digit (SD) Addition").
- 5) From the EE 7715 notes on the web you are responsible for item 8 of the extra handouts. This item is a hand-out "Fixed Point Multiplication".
- 6) From the EE 7715 notes part I on the web you are responsible for pages ①f through ⑦o.

 NEXT PAGE

EE 7715, Spring ~~2010~~ ²⁰¹² (3)
Materials for test 2 cont.

NOTE 1: Pay attention to all the proofs presented in the materials for which you are responsible.

NOTE 2: You don't have to remember the result of the derivations for the Baugh-Wooley multipliers but you should be able to derive the result.

NOTE 3: For pages (1)k through (10)k of the EE 7715 notes part I on the web, if I ask a problem on reductions, I will give you the needed sequence of numbers used for the reductions.

NOTE 4: You are not responsible for pages (4)m, (5)m, (6)m and (7)n through (10)n of the EE 7715 notes part I on the web.

(B) Number of points for test 2.

The test 2 will have 107 points.

➡ NEXT PAGE ➡

EE 7715, Spring ~~2010~~ ²⁰¹² ~~2011~~ (4)
Number of points for test 2 cont.

100 points on materials and 7 bonus points.

Bonus problem 1 (5 points): Write your comments ahead of time. Don't put your name on the comments. Bring the comments during the day of test 2. Put them in the envelope provided to you and write your name outside of the envelope.

Bonus problem 2 (1 point): Was the test easy or difficult?

Bonus problem 3 (1 point): Was the given time enough?