Week 13: Reading & Homework Assignment # 10

Lecturer: Prof. Steven Errede  serrede@illinois.edu
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Office Hours: Anytime (by appt. preferred…)

Lab TAs: Matt Ziemann  mrziema2@illinois.edu
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Office Hours: Tuesdays, 2-3 pm  6105 Eng. Sci. Bldg. (or by appt.)

Course Textbook(s): Physics 406 Lecture Notes (posted on P406 website – see below)

Course Website: http://courses.physics.illinois.edu/phys406/
http://courses.physics.illinois.edu/phys193/  ⇐ Freshman “Discovery” POM Course (less technical)

All lecture notes, lab handouts, additional references, previous student final project reports (and much more) are available on the P406 (and P193) website(s). Please check these out!

Course Organization:

A. Lectures: Tuesdays & Thursdays, 12:30-1:50 pm, in the POM Lab (6105 ESB).
   We will also have various demos using equipment in the POM Lab (6105 ESB).

B. Friday Labs: Lab1 @ 11:00 am -1:50 pm, Lab2 @ 2:00-4:50 pm in the POM Lab (6105 ESB)
   First part of the semester will consist of doing various simple/short experiments using
equipment and/or software in the lab. Will discuss this in the 1st lab session(s) this coming Friday.
   Second part of semester, labs will be focused on student project(s) – more on this below.

C. Weekly Reading and Homework Assignments: HW due following week on Thursday, in class.
D. Take-Home Midterm Exam: Tuesday, March 7, 2017, Due: Thursday, March 16, 2017
E. Midterm Project Oral Presentations: Brief! In class – Tues & Thurs, March 7 & 9, 2017
F. Final Project Oral Presentations: Brief! In class – Thurs, April 27 & Tues, May 2, 2017
G. Take-Home Final Exam: Tuesday, April 25, 2017, Due: Friday, May 5, 2017
H. Final Project Written Report: Due: Friday, May 12, 2017

Reading Assignment For Week 13: Please read Physics 406 Lect. Notes XIII.

Homework Assignment For Week 13: As you do this week’s reading assignment: See Below.....

Final grade based on:
ΣHW’s: 20%
MT: 15%
FE: 30%
FP: 35% (= Σ mid-term & final oral presentations, final written report).
Homework Assignment For Week 13: n.b. this is HW # 10 !!!

1.) Work through the entire derivation of Example # 1 of the 1-D Monochromatic Traveling Plane Wave Propagating in “Free Air” in Physics 406 POM Lecture Notes 12, p. 4-7.

2.) Turn in your above derivation as HW # 10.