

Homework 8

Phys 155, Winter 2008, UCSC

Due Mar 10

For problems from H&H, please note that solutions are included in the textbook. However, use those solutions simply as a guide, if necessary. If you do, your answers should show clear evidence (details, diagrams, your own words, etc.) for your own understanding. Verbatim copies of the H&H solution will not be given points.

1. [5 points] Problem 5.5 of H&H
2. [5 points] Problem 5.8 of H&H
3. [10 points; Pre-final; Email this part to me! I won't be in Santa Cruz on the 10th.] Expanding the abstract that you already submitted, submit the "first-draft" version of your "final report" (1-2 pages of typed text and any necessary equations). The summary material should describe your subject coherently, including (1) general background (take it easy, starting from basics that we covered in this course), motivation and (2) a reasonably in-depth look at core physics issue that is interesting to you. It should also specify reference to book or journal article that you used.
 - For the presentation, please prepare 4-5 slides (excluding title) and plan to spend about 2 minutes on each slide. Plan to finish the presentation in about 10 minutes. Including questions and answers during or after the talk, each person is expected to spend about 15 minutes for the presentation.
 - For the 4-5 slides, prepare the first half for introduction (general issues of interest) and the second half for an in-depth look at the specific item of your interest.
 - For the evaluation of your presentation, I will require that you submit your presentation slides to me.
 - The final will be graded based on the final version of this 1-2 page report (which will be due March 19 – the "final" lecture date), your presentation material, and your presentation itself. The basis for the evaluation will be the coherence, the scientific merit, and the relevance to the course.