

Assignment #3
Physics 418, Spring 2012
due Monday, February 13th

Read chapters 3 (again) and read chapter 4. Check out the chart of nuclides (<http://atom.kaeri.re.kr/>). This can act as a replacement for the *CRC Handbook of Chemistry and Physics* that Das and Ferbel so lovingly reference. Click on any region of the chart to get a magnified view of the region, then click again on any nuclide to get information about it (e.g. its atomic mass, binding energy, etc.). You will find this a very helpful resource for solving problems in this class.

- 1) Das & Ferbel, Problem 3.1.
- 2) Das & Ferbel, Problem 3.2.
- 3) Das & Ferbel, Problem 3.4.
- 4) Das & Ferbel, Problem 3.5. Hint: don't expect too much agreement.
- 5) Das & Ferbel, Problem 4.1.