PHY 3513 Fall 1998 – Homework 6

Due at the start of class on Friday, October 9.

Answer all questions, including any additions to textbook problems. Please explain your reasoning and show all working, write neatly and remember to include your name on the front page of your answers.

1. Callen Problem 2.8-1. Before solving the problem, check the extensivity and dimensional correctness of the fundamental equation, and fix any errors you find by inserting powers of N and/or dimensional constants.

2. Callen Problem 3.2-1.

3. Callen Problem 3.3-1.

4. Callen Problem 3.3-2.