

Problem Set 10
(due Wednesday, April 5)

1. Problem 6.44, page 251.
2. Problem 6.48, page 255.
3. Problem 6.52, page 256.
4. Problem 7.3, page 260. To check your answer you can look up the Saha equation (equation 5.30) in Section 5.6, which we didn't cover in the course. In that section the equation is written in terms of partial pressures, but in an ideal gas the ratio of the partial pressures of two components is the same as the ratio of the numbers of the corresponding particles. Please also check the arithmetic in equation 5.31, which applies the Saha equation to hydrogen at the surface of the sun. This calculation will prepare you for the following problem.
5. Problem 6.8, page 227. This question is a follow-up on the previous problem.
6. Problem 7.8, page 265.
7. Problem 7.9, page 265.
8. Problem 7.10, page 265.
9. Problem 7.11, page 269.
10. Problem 7.13, parts (a) and (c), page 269.
11. Answer the questions on the reverse side of this sheet.

Textbook Comments

Problem Set 10

With respect to the portion of your textbook that was covered by this problem set, including the problems themselves ...

Describe at least one thing that you liked about the book. Please be as specific as you can.

Describe at least one thing that you disliked about the book, or one way in which the book could be improved. Please be as specific as you can.