

**Due date:** Tuesday, Feb. 12

**Deadline:** Thursday, Feb. 14

B means a problem in Blundell & Blundell's text; GT means a problem in Gould & Tobochnik.

1. B 4.2—Warning, there is a typo in this problem. The two-state system is in Example 4.3, not 3.2.
2. B 4.3
3. B 4.7
4. GT 4.29 (problem about relative abundance of 2 conformations of 2-butane)
5. B 5.2
6. B 5.4
7. B 6.4 Assume that the number density  $n$  is  $5 \cdot 10^5$ /liter. Give your answer in cubic light-years.
8. B 6.5