

**Reading:** Chapter 3 of ISSP, pp. 42–73, and summary on p. 85.

**Announcement:** 2<sup>nd</sup> Midterm is scheduled for Tuesday, April 10, in class.  
This will be a closed book exam. One sheet of notes (both sides) is allowed.

- (25) 1. ISSP, Ch. 7, Problem 4: **Potential energy in the diamond structure.**
- (25) 2. (a) ISSP, Ch. 3, Problem 3: **Solid molecular hydrogen.**
- (b) Give an estimate of the zero-point kinetic energy per hydrogen molecule that will modify the cohesive energy calculated in part (a).
- (25) 3. ISSP, Ch. 3, Problem 5: **Linear ionic crystal.**