

## **ELEG 340: Solid-State Electronics, Fall 2008**

### **Homework #1 - due Tuesday, 16 September 2008, at the beginning of class**

1. Problem 1.2 in chapter 1, p. 26 of Streetman-Banerjee, 6<sup>th</sup> edition. Compare your result with the packing fraction of silicon (and diamond): 34%.
2. Problem 1.3 in chapter 1, p. 26 of Streetman-Banerjee, 6<sup>th</sup> edition.
3. Problem 1.4 in chapter 1, p. 26 of Streetman-Banerjee, 6<sup>th</sup> edition.
4. Problem 1.12 in chapter 1, p. 27 of Streetman-Banerjee, 6<sup>th</sup> edition.
5. Problem 1.18 in chapter 1, p. 27 of Streetman-Banerjee, 6<sup>th</sup> edition.

Homework assignments will appear on the web at:  
<http://www.ece.udel.edu/~kolodzey/courses/eleg340f08.html>

Note: On each homework and report submission, please give your name, the due date, assignment number and the course number.