DUE: Monday December 9, 2019

All completed homework sets should delivered to my ISB mailbox by 5 pm on Monday December 9. No late homeworks will be accepted. Solutions will be posted shortly thereafter.

<u>*FINAL EXAM ALERT:*</u> On Thursday, December 12 there will be a three-hour in-class final exam from 12–3 pm. The exam will take place in our usual classroom (Thimann Lecture Hall 001). During the exam, you may refer to the textbook, the class handouts, solutions to homeworks, exams and practice problems, or your own personal notes.

The exam will cover all the material treated during this quarter, which includes Chapters 1, 2, 3, and 8 of Boas (excluding Section 13 of Chapter 3 and Sections 10–12 of Chapter 8 which were not covered in class) and all ten homework sets. Although there will be some emphasis on the material from Chapters 3 and 8 of Boas, you can be sure that you will be asked to series expand something at some point during the exam.

To receive full credit for the problems below, you must exhibit the intermediate steps that lead you to your final results. Comparing with a computer solution is optional.

1. Boas, p. 415, problem 8.5–19.
2. Boas, p. 416, problem 8.5–40.
3. Boas, p. 423, problem 8.6–14.
4. Boas, p. 423, problem 8.6–21.
5. Boas, p. 423, problem 8.6–24.
6. Boas, p. 429, problem 8.6–38.
7. Boas, p. 435, problem 8.7–3.
8. Boas, p. 436, problem 8.7–17.
9. Boas, p. 436, problem 8.7–30.
10. Boas, p. 439, problem 8.8–22.
11. Boas, p. 443, problem 8.9–16.
12. Boas, p. 443, problem 8.9–29.