

Part V

Chance Variability

Chapter 16: The Law of Averages

This chapter is a brief introduction to the ideas of chance variability.

Section 16.1: The main ideas are summarized in figures 1 and 2.

Suggested problems for study: A: page 277: 1–4, 6

Section 16.2: Just read. It defines a box model.

Section 16.3: This section introduces the main mechanism for the rest of the course.

Suggested problems for study: B: pages 280 and 281: 1, 2, 5; and less important: 3 and 4.

Section 16.4: The main setup for modelling games of chance is found in the three boxes on page 284. Consider this a side issue in this course.

Suggested problem for study: C: page 284: 1

Chapter Summary: page 287: points 1, 2, 3, 4, and 5 are important. Point 6 is not emphasized.

Review Exercises

Homework (pages 285 and 286): 1, 2, 5, 7

Comments on HW:

Be careful with problems 1 and 2. They are not difficult, but illustrate important concepts.

To do problem 7, refer to section 16.4.

Also look at problems 6 and 10 on page 286. Problem 10 is needed for a later homework problem.

For casual interest: problems 3, 4, and 8 on pages 285 and 286.