Stochastic Processes

Chapter 1 Introduction to Probability Theory

0. Reading:

- Ross Chap 1 (main reading)
- Rosenthal Chap 1 (a discussion on why we need measure theory, and the existence of a nonmeasurable set)
- Shreve §1.1 (a deeper discussion on σ-algebra and countable additivity)

1. Formal definition of probability space $(\Omega, \mathcal{F}, \mathsf{P})$

- **Definition**:
  The set of all possible outcomes of an experiment is called the **sample space** and is denoted by Ω. An outcome (sample point) is denoted by $\omega \in \Omega$.
- **Definition**:
  A collection $\mathcal{F}$ of subsets of Ω is called a **σ-filed** (σ-algebra, filtration) if it satisfies the following conditions:
  (a) $\varnothing \in \mathcal{F}$;
  (b) if $A_1, A_2, \cdots \in \mathcal{F}$, then $\bigcup_{i=1}^{\infty} A_i \in \mathcal{F}$;
  (c) if $A \in \mathcal{F}$, then $A^c \in \mathcal{F}$.
- **Definition**:
  A **probability measure** P on $(\Omega, \mathcal{F})$ is a function $\mathsf{P} : \mathcal{F} \to [0, 1]$ satisfying
  (a) $0 \le \mathsf{P}(A) \le 1$;
  (b) $\mathsf{P}(\Omega) = 1$;
  (c) if $A_1, A_2, \cdots$ is a collection of disjoint (mutually exclusive) members of $\mathcal{F}$, in that $A_i \cap A_j = \varnothing$ for all pairs i, j satisfying $i \neq j$, then
  $$\mathsf{P}(\bigcup_{i=1}^{\infty} A_i) = \sum_{i=1}^{\infty} \mathsf{P}(A_i).$$
- **Discussion**:
  (a) Why not "finitely additive" but "countably additive"?
  (b) What's wrong with "uncountably additive"?
  (c) What is a "measure"? What is an event? What does "measurable" mean?

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J Elliott

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