

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 (Ω, \mathcal{F}, 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 -field** (σ -algebra, filtration) if it satisfies the following conditions:

- (a) $\emptyset \in \mathcal{F}$;
- (b) if $A_1, A_2, \dots \in \mathcal{F}$, 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 (Ω, \mathcal{F}) is a function $P: \mathcal{F} \rightarrow [0, 1]$ satisfying

- (a) $0 \leq P(A) \leq 1$;
- (b) $P(\Omega) = 1$;
- (c) if A_1, A_2, \dots is a collection of disjoint (mutually exclusive) members of \mathcal{F} , in that $A_i \cap A_j = \emptyset$ for all pairs i, j satisfying $i \neq j$, then

$$P\left(\bigcup_{i=1}^{\infty} A_i\right) = \sum_{i=1}^{\infty} P(A_i).$$

• **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?

Introduction To Stochastic Processes Lecture Notes

S. R. S. Varadhan



Introduction To Stochastic Processes Lecture Notes:

Introduction To Stochastic Processes Lecture Notes Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Introduction To Stochastic Processes Lecture Notes**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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