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3. Probability Theory
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Durrett Exercise 1.6.13 Durrett Exercise 1.1.5 GRCC Math Department presents: Bayes’ Theorem: Using Probability Theory to Quantify Uncertainty Probability Theory And Examples Rick
background in measure theory can skip Sections 1.4, 1.5, and 1.7, which were previously part of the appendix. 1.1 Probability Spaces Here and throughout the book, terms being de’ned are set in boldface. We begin with the most basic quantity. A probability space is a triple (Ω, \mathcal{F}, P) where Ω is a set of “outcomes,” \mathcal{F} is a set of “events ...

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Example 1.1.1. Discrete probability spaces. Let Ω = a countable set, i.e., Ω is countable. Let \mathcal{F} = the set of all subsets of Ω . Let $P(A) = \sum_{\omega \in A} p(\omega)$ where $p(\omega) \geq 0$ and $\sum_{\omega \in \Omega} p(\omega) = 1$.

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Three examples that will be important in what follows are: Example 1.2.3 (Uniform distribution on (0,1)) $f(x) = 1$ for $x \in (0,1)$ and 0 otherwise. Distribution function: $F(x) = x$ for $0 \leq x \leq 1$ and $F(x) = 0$ for $x < 0$ and $F(x) = 1$ for $x > 1$. Example 1.2.4 (Exponential distribution with rate λ) $f(x) = \lambda e^{-\lambda x}$ for $x \geq 0$ and 0 otherwise.

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Let X_1, X_2, X_3, X_4 be independent and take values 1 and $\frac{1}{2}$ with probability $\frac{1}{2}$ each. Let $Y_1 = X_1 X_2, Y_2 = X_2 X_3, Y_3 = X_3 X_4$, and $Y_4 = X_4 X_1$. It is easy to see that $P(Y_i = 1) = P(Y_i = \frac{1}{2}) = \frac{1}{2}$. Since $Y_1 Y_2 Y_3 Y_4 = 1, P(Y_1 = Y_2 = Y_3 = 1, Y_4 = \frac{1}{2}) = 0$ and the four random variables are not independent.

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The title of the book indicates that as we develop the theory, we will focus our attention on examples. Hoping that the book would be a useful reference for people who apply probability in their work, we have tried to emphasize the results that are important for applications, and illustrated their use with roughly 200 examples.

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Probability: Theory and Examples is written for a graduate course in probability. It is not designed for undergraduates or others who are learning the material for the first time. At the graduate level it has been very successful and is one of the mostly commonly used texts in the country.

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