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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 defined 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., finite or countably infinite. 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 0 otherwise. 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 -1 with probability 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 $P(Y_i = 1) = P(Y_i = -1) = 1/2$. Since $Y_1 Y_2 Y_3 Y_4 = 1$, $P(Y_1 = Y_2 = Y_3 = 1, Y_4 = -1) = 0$ and the four random variables are not independent.

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